# JVC



## ENGLISH

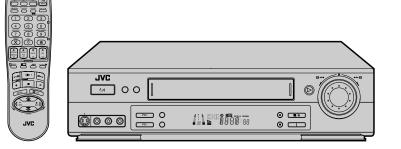
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LPT0428-001A

# VIDEO CASSETTE RECORDER

# **HR-S5700AM**



G-code"/SHOWVIEW"

Hi-Fi SUNS Super VHS ET

INSTRUCTIONS

 $2_{EN}$ 

# **Safety Precautions**

The rating plate and the safety caution are on the rear of the unit.

#### WARNING: DANGEROUS VOLTAGE INSIDE

## WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

#### CAUTION

- When you are not using the recorder for a long period of time, it is recommended that you disconnect the power cord from the mains outlet.
- Dangerous voltage inside. Refer internal servicing to qualified service personnel. To prevent electric shock or fire hazard, remove the power cord from the mains outlet prior to connecting or disconnecting any signal lead or aerial.
- Use the conversion plug (not provided in certain areas) depending on the type of your AC wall outlet.

#### ATTENTION

- 1. This recorder can also receive SECAM colour television signals for recording and playback.
- Recordings made of SECAM television signals produce monochrome pictures if played back on another video recorder of SECAM standard, or do not produce normal colour pictures if played back on another video recorder of PAL standard.
- 3. SECAM prerecorded cassettes or recordings made with a SECAM video recorder produce monochrome pictures when played back with this recorder.

#### IMPORTANT

- Please read the various precautions on this page before installing or operating the recorder.
- It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

#### Caution on Replaceable lithium battery

The battery used in this device may present a fire or chemical burn hazard if mistreated. Do not recharge, disassemble, heat above 100°C or incinerate.

Replace battery with Panasonic (Matsushita Electric), Sanyo, Sony or Maxell CR2025. Danger of explosion or Risk of fire if the battery is incorrectly replaced.

- Dispose of used battery promptly.
- Keep away from children.
- Do not disassemble and do not dispose of in fire.

# 

- Cassettes marked "S-VHS" and "VHS" can be used with this video cassette recorder. However, S-VHS recordings are possible only with cassettes marked "S-VHS".
- By using S-VHS ET it is possible to record and play back with S-VHS picture quality on VHS cassettes with this recorder.
- HQ VHS is compatible with existing VHS equipment.

G-CODE is a trademark of Gemstar Development Corporation and is registered in the following countries: Australia, China, Hong Kong, Japan, South Korea, New Zealand, and Taiwan. SHOWVIEW is a trademark of Gemstar Development Corporation and is registered in the following countries: Australa, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Russia, Slovakia, South Africa, Spain, Sweden and Switzerland. The G-CODE/SHOWVIEW system is manufactured under license from Gemstar Development Corporation. G-CODE and SHOWVIEW are different trademarks used to represent the same easy recording feature. However, for simplicity, only the term G-CODE will be used in the instructions. If you use SHOWVIEW system, follow the same steps listed for the G-CODE system.

#### **POWER SYSTEM**

This set operates on voltage of AC110 – 240 V $\sim$  (Rating), AC90 – 260 V $\sim$  (Operating), 50/60 Hz with automatic switching.

The STANDBY/ON 心/I button does not completely shut off mains power from the unit, but switches operating current on and off. " ひ " shows electrical power standby and " I " shows ON.

Video tapes recorded with this video recorder in the LP (Long Play) or EP (Extended Play) mode cannot be played back on a single-speed video recorder.

## Failure to heed the following precautions may result in damage to the recorder, remote control or video cassette.

#### 1. <u>DO NOT</u> place the recorder . . .

- ... in an environment prone to extreme temperatures or humidity.
- ... in direct sunlight.
- ... in a dusty environment.
- ... in an environment where strong magnetic fields are generated.
- ... on a surface that is unstable or subject to vibration.
- 2. DO NOT block the recorder's ventilation openings.
- 3. DO NOT place heavy objects on the recorder or remote control.
- 4. DO NOT place anything which might spill on top of the recorder or remote control.
- 5. AVOID violent shocks to the recorder during transport.

#### MOISTURE CONDENSATION

Moisture in the air will condense on the recorder when you move it from a cold place to a warm place, or under extremely humid conditions—just as water droplets form in the surface of a glass filled with cold liquid. Moisture condensation on the head drum will cause damage to the tape. In conditions where condensation may occur, keep the recorder turned on for a few hours to let the moisture dry.

#### ABOUT HEAD CLEANING

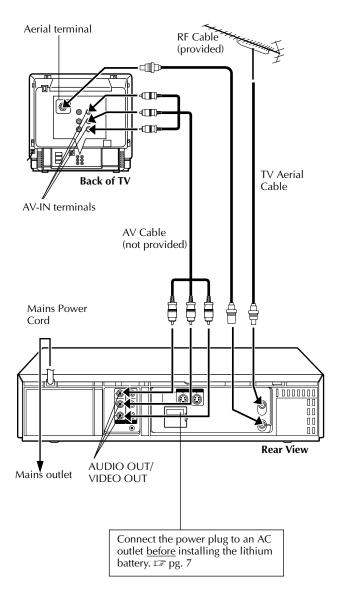
Accumulation of dirt and other particles on the video heads may cause the playback picture to become blurred or interrupted. Be sure to contact your nearest JVC dealer if such troubles occur.

#### **Auto Head Cleaner**

A built-in head cleaner automatically cleans the video heads and head drum whenever a tape is loaded or unloaded to reduce head clogging.

### INSTALLING YOUR NEW RECORDER

# Basic Connections



It's essential that your video recorder be properly connected. Follow these steps carefully. THESE STEPS MUST BE COM-PLETED BEFORE ANY VIDEO OPERATION CAN BE PER-FORMED.

#### CHECK CONTENTS Make sure the package contains all of the

Make sure the package contains all of the accessories listed in "SPECIFICATIONS" ( $\square$  pg. 57).

### SITUATE RECORDER

Place the recorder on a stable, horizontal surface.

# CONNECT RECORDER TO

The connection method you use depends on the type of TV you have.

#### **RF CONNECTION**

- To Connect To A TV With NO AV Input Terminals . . .
   a- Disconnect the TV aerial cable from the TV.
   b- Connect the TV aerial cable to the ANT. IN jack
  - on the rear panel of the recorder. **c**- Connect the provided RF cable between the RF
  - C- Connect the provided RF cable between the RF OUT jack on the rear panel of the recorder and the TV's aerial terminal.

#### AV CONNECTION

- To Connect To A TV With AV Input Terminals . . . a– Connect the aerial, recorder and TV as per "RF CONNECTION".
  - **b** Connect an optional AV cable between the AUDIO OUT and VIDEO OUT connectors on the rear panel of the recorder and the TV's AV-IN terminals .

#### CONNECT RECORDER TO MAINS

Plug the end of the mains power cord into a mains outlet.

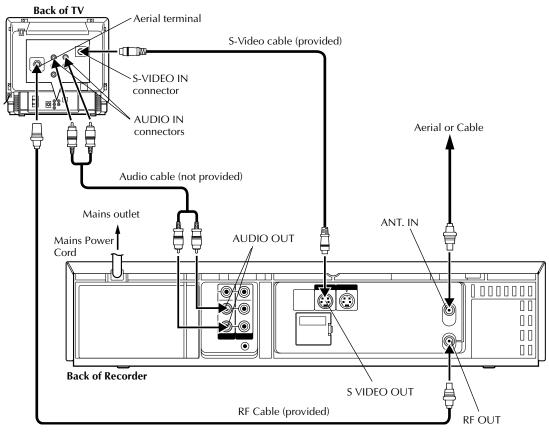
#### NOTE:

Use the conversion plug (not provided in certain areas) depending on the type of your AC wall outlet.

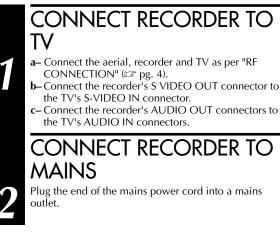
#### ATTENTION

If you have finished all the necessary connections, go to "Video Channel Set" on page 6, then perform Auto Set Up on page 8; do NOT press the  $\oplus/I$  button on the recorder/remote control to turn on the recorder's power before you start Auto Set Up.

# **S-VIDEO** Connection



• To Connect to A TV With S-VIDEO/AUDIO IN Connectors . . .



#### **NOTES:**

- You can obtain high-quality S-VHS pictures.
- To operate the recorder with your TV using the S-VIDEO connection, set your TV to the VIDEO (or AV mode).
- For switching the TV's mode, refer to the instruction manual of your television.

#### ATTENTION

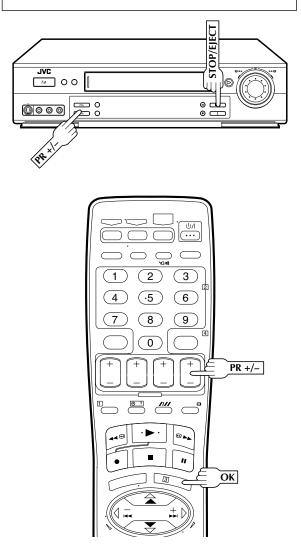
If you have finished all the necessary connections, go to "Video Channel Set" on page 6, then perform Auto Set Up on page 8; do NOT press the 0/1 button on the recorder/remote control to turn on the recorder's power before you start Auto Set Up.

#### **INITIAL SETTINGS**

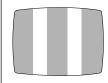
# Video Channel Set

 $6_{EN}$ 

Video Channel (RF Output Channel) is the channel on which your TV receives picture and sound signals from the video recorder through the RF cable.



#### **TEST SIGNAL**



The channel on which the screen to the left appear clearly in step **3** is your Video Channel.

To view picture signals from the video recorder, set your TV to the Video Channel.

If you have connected the video recorder to your TV via the provided RF cable only (RF connection) – Go to "With RF Connection" below.

If you have connected the video recorder to your TV via both the provided RF cable and an AV cable (AV connection), or via the provided RF cable, the provided S-Video cable and an audio cable (S-VIDEO connection) – Go to "With AV Connection or S-VIDEO Connection" on next page.

### With **RF** Connection

#### **IMPORTANT:**

Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.

ACCESS VIDEO C SET MODE Hold down STOP/EJECT on the recc display panel shows the following.	order until the
SELECT TV SYSTEM Press PR +/- to set appropriate TV so the system of TV being used (refer to 1 : B/G 2 : D/K 3 : 1 4	ystem that matches
Major Countries	TV System
New Zealand, Kuwait, U.A.E., Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
Australia	Н
U.S.A., Japan, S.Korea, Taiwan	м



## SET VIDEO CHANNEL

Set your TV to UHF channel 36.

- If the two vertical white bars appear clearly on the screen as shown in the illustration (CF "TEST SIGNAL" on page 6), press **OK** and then go to step **4**.
- If the two vertical white bars do not appear clearly, press **OK** and then **PR** +/- to set the video recorder to a vacant channel between 28 and 60 which is not occupied by any local station in your area.

(Ex.) If channel 50 is available in your area



Then set your TV to UHF channel 50<sup>°</sup> and check if the two vertical white bars appear clearly on the screen; if so, go to step **4**. If not, re-set the video recorder to another vacant channel and try again.

#### **NOTES:**

- If you set the video recorder to a channel which is occupied by a local station or has neighbouring channels that are occupied by local stations, the picture reception quality will be affected and some interference noise will appear on the TV screen. Be sure to select a vacant channel which has no broadcast on neighbouring channels.
- If you cannot obtain the two vertical white bars clearly with any channel between 28 and 60, consult your JVC dealer.

#### FINISH VIDEO CHANNEL SET

Press OK.

 If Auto Set Up (IIF pg. 8) or Tuner Set (IIF pg. 46) has not previously been performed, the Language Select screen appears and Auto Set Up function takes place automatically.

#### With AV Connection or S-VIDEO Connection

#### **IMPORTANT:**

Before performing the following steps, make sure the recorder's power is off and there is no cassette inserted in the recorder.

#### ACCESS VIDEO CHANNEL SET MODE Hold down STOP/EIECT on the recorder until the

Hold down **STOP/EJECT** on the recorder until the display panel shows the following.

ĴŰ UT 36

#### SET VIDEO CHANNEL

Press **OK**, then press **PR** – until the display panel shows the following.

Now the video channel is set to off (- -).

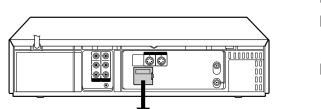
#### FINISH VIDEO CHANNEL SET

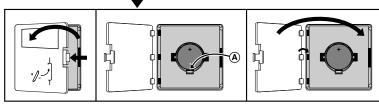
Press OK.

• If Auto Set Up (IF pg. 8) or Tuner Set (IF pg. 46) has not previously been performed, the Language Select screen appears and Auto Set Up function takes place automatically.

To view picture signals from the video recorder, set your TV to its AV mode.

Be sure to connect the power plug to an AC outlet first before installing the lithium battery; otherwise, the battery's service life will be drastically shortened.





#### Installing/Removing the lithium battery

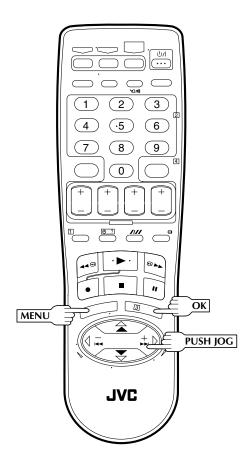
- Make sure that the power plug is connected to an AC outlet and turn off the recorder power.
- 2 Open the battery cover while pressing the release tab as \_\_\_\_\_illustrated.
- Insert a lithium battery with the plus (+) side up and push it in.
   To remove the lithium battery, press the latch (A) downward using a pointed non-metallic object, then pull out the lithium battery.
- 4 Close the battery cover until it clicks in place.

### INITIAL SETTINGS (cont.)

# Auto Set Up

#### IMPORTANT

- Don't press any buttons on the recorder or remote that are not directly related to the step you are performing while Auto Set Up is in progress.
- If you perform Auto Set Up successfully during installation, there's no need to separately perform the Language Select, Clock Set or Channel Set procedures, but if adjustments become necessary they can be performed as follows:
  - To change the selected language 🖙 pg. 11
  - To reset or adjust the time 🖙 pg. 12
  - To add/delete channels manually 🖙 pg. 47, 48
  - To reset the tuner after moving to a different location  $\square \ensuremath{\mathbb{F}}$  pg. 46



The Auto Set Up function simplifies installation by guiding you through the procedures of setting the language, clock and tuner channels — simply follow the on-screen menus that appear.

Before starting, make sure of the following:

- The TV aerial cable should be connected to the recorder.
  The recorder's mains power cord should be connected to a mains outlet. IP pg. 4, 5
- The "Video Channel Set" procedure should be done first and the TV should be set to its AV mode (with AV or S-VIDEO connection IF pg. 7) or video channel (with RF connection IF pg. 6).

### SELECT LANGUAGE

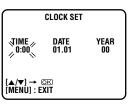
Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to your desired language (English or Chinese), then press **OK** or **PUSH JOG**  $\triangleright$ .

• The Clock Set screen appears.

### SET TIME

Press **PUSH JOG**  $\triangle \nabla$  to set the time, then press **OK** or **PUSH JOG**  $\triangleright$ .

• Press and hold either button to delay or advance the time by 30 minutes.



### SET DATE

Press PUSH JOG  $\triangle \nabla$  to set the date, then press OK or PUSH JOG  $\triangleright$  .

• Press and hold either button to change the date by 15 days.

#### SET YEAR

Press **PUSH JOG**  $\triangle \nabla$  to set the year, then press **MENU**.

Major Countries	TV System
Australia, New Zealand, Kuwait, U.A.E., Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
U.S.A., Japan, S.Korea, Taiwan	М

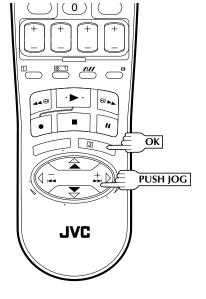
SELECT TV SYSTEM Press PUSH JOG  $\triangle \nabla$  to place the pointer next to the appropriate TV system (refer to the table on the left).

# START AUTO CHANNEL

Press **OK** or **PUSH JOG** ▷.

6

- The Auto Set Up function scans all the channels that are receivable by your recorder. It then automatically assigns each receivable channels to the **PR** +/– buttons. It skips non-receivable channels.
- As Auto Set Up progresses, the "■" mark on the screen moves from left to right. (See below.)



DO NOT press any button on the recorder or remote control while Auto Set Up is in progress.

#### During Auto Set Up

"PLEASE WAIT" blinks on the screen and "Auto" blinks on the front display panel.

When Auto Set Up is completed, the lowest position number will appear on the front display panel.

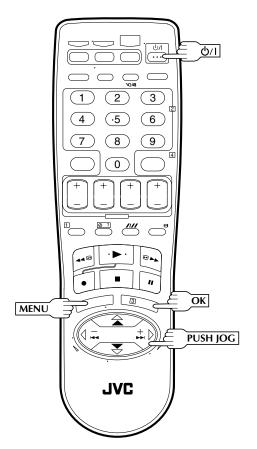
#### **NOTES:**

- If you perform Auto Set Up when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the screen. When this happens, make sure of the aerial connection and press **OK**; Auto Set Up will take place again.
- If there is a power cut, or if you press U/l or MENU while Auto Set Up is in progress, Auto Set Up will be interrupted; be sure to turn off the recorder power once and try again.
- If you want to set the tuner manually such as to add or skip channels, to swap channel positions, or to fine-tune channels,  $\Box = pg$ . 47 49.
- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Set Up, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. If "TV System Selection When you see the picture but the audio can't be heard or sounds unnatural" on page 49.

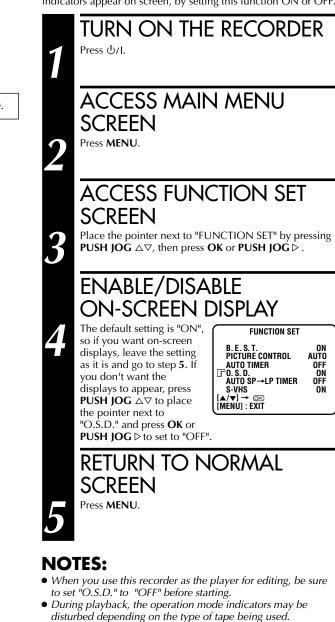
# 10<sub>EN</sub>

# On-Screen Displays

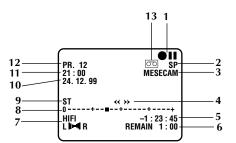
Turn on the TV and select the VIDEO channel (or AV mode).



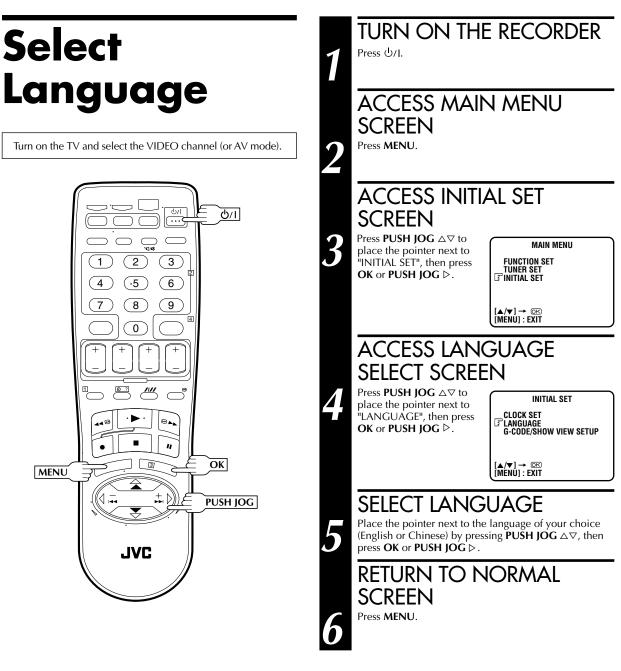
You can choose whether or not to have various operational indicators appear on screen, by setting this function ON or OFF.

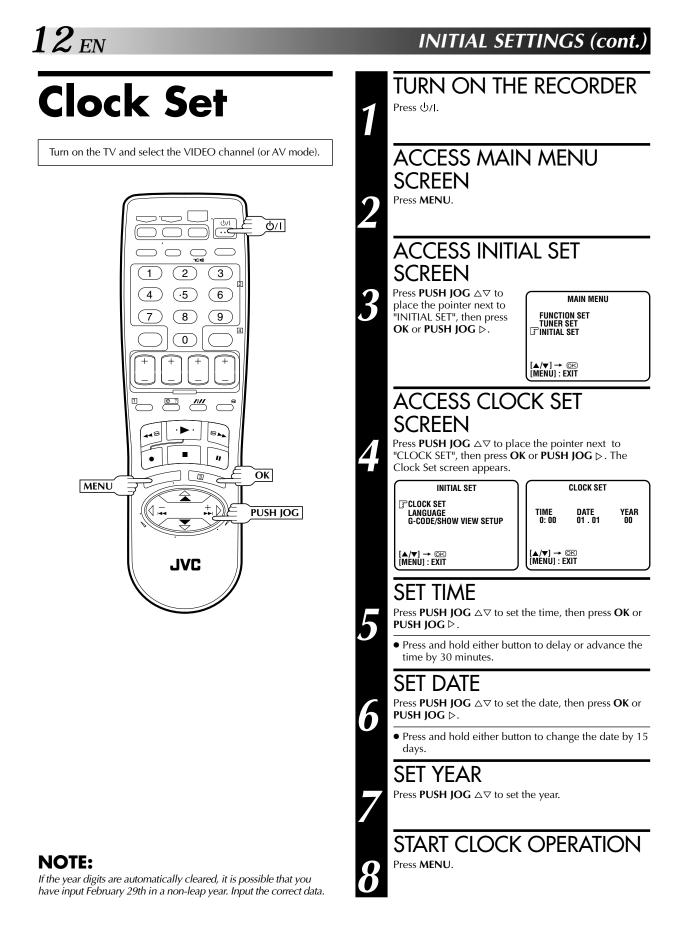


#### The superimposed indication on the TV screen tells you what the recorder is doing.



- 1 Operation mode indicators
- 2 Tape speed SP/LP/EP
- 3 Colour system indicator (I pg. 44)
- 4 Tape direction
- 5 Counter display
- 6 Tape remaining time indicator
- 7 Audio mode display (🖙 pg. 16)
- 8 Tape position indicator (EP pg. 16)
- 9 Type of Broadcast (🖙 pg. 19)
- 10-Current day/month/year
- 11 Clock display
- 12-Channel position number/Aux. indicator (L-1, F-1 or S-1)
- 13-Cassette loaded mark

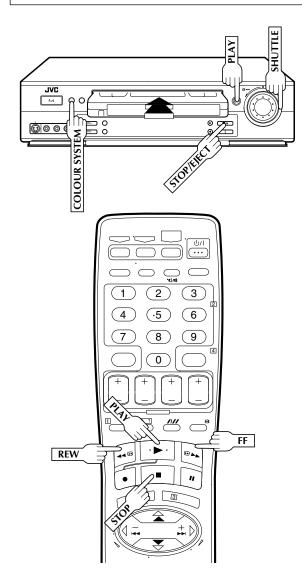




### PLAYBACK

# Basic Playback

Turn on the TV and select the VIDEO channel (or AV mode).



#### Clean the video heads using a dry cleaning cassette--TCL-2UX--when:

- Rough, poor picture appears while a tape is played back.
- The picture is unclear or no picture appears.
- "USE CLEANING CASSETTE" appears on the screen (only with "O.S.D." set to "ON" (CF pg. 8).

The easiest, most basic operation possible with your video recorder is tape playback. Already-recorded signals on a video tape are read by your video recorder and displayed on your TV just like a TV programme.

S-VHS playback is possible only with S-VHS PAL tapes recorded in SP or LP, or S-VHS NTSC tapes recorded in the SP or EP mode.

## LOAD A CASSETTE

Make sure the window side is up, the rear label side is facing you and the arrow on the front of the cassette is point toward the recorder. Don't apply too much pressure when inserting.

- The recorder power comes on automatically and the counter is reset to 0:00:00.
- Select the appropriate colour system by pressing the **COLOUR SYSTEM** button(CF pg. 44).
- If the record safety tab has been removed, playback begins automatically (IIF pg. 17).

### FIND PROGRAMME START POINT

If the tape is advanced past the start point, press **REW** or turn the **SHUTTLE** ring to the left. To go forward, press **FF** or turn the **SHUTTLE** ring to the right.

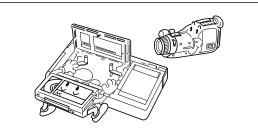
## START PLAYBACK

Press **PLAY**. "BEST" appears blinking in the recorder's display panel during automatic tracking ( $\square P$  pg. 22).

## STOP PLAYBACK

Press **STOP** on the remote or **STOP/EJECT** on the recorder's front panel. Then press **STOP/EJECT** to remove the cassette.

#### Usable cassettes



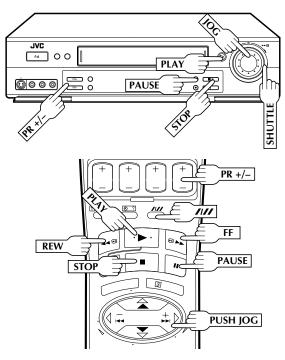
- Compact VHS camcorder recordings can be played on this video recorder. Simply place the recorded cassette into a VHS Cassette Adapter and it can be used just like any full-sized VHS cassette.
- This video recorder can record on regular VHS and Super VHS cassettes. While only VHS signals can be recorded on regular VHS cassettes, both VHS and Super VHS signals can be recorded and played back using Super VHS cassettes.
- \* By using S-VHS ET it is possible to record and play back with S-VHS picture quality on VHS cassettes with this recorder (IF) pg. 21).

## PLAYBACK (cont.)

Play

Forward search

# Playback Features



## **High-Speed Search**



### Activate High-Speed Search

During playback or still, turn the **SHUTTLE** ring all the way to the right for forward high-speed search, or to the left for reverse high-speed search.

- For forward search with a visible picture, turn the **SHUTTLE** ring all the way to the right and release it within 1 second.
- For reverse search with a visible picture, turn the **SHUTTLE** ring all the way to the left and release it within 1 second.

#### OR

During playback or still, press **FF** for forward highspeed search, or **REW** for reverse high-speed search.

To resume normal playback, press PLAY.

#### NOTE:

For short searches, press and hold **FF** or **REW** during playback or still picture. When released, normal playback resumes.

#### NOTE: Refer to the SHUTTLE ring illustration to the right as you read the following procedures. Slow Reverse Slow motion Slow motion

#### Still Picture/Frame-By-Frame Playback

## PAUSE DURING PLAYBACK

Press **PAUSE.** If there is vertical jitter, use the **PR** +/– buttons to correct the picture.

### ACTIVATE FRAME-BY-FRAME PLAYBACK

Turn the **JOG** dial to the right for forward frame-byframe playback, or to the left for reverse frame-by-frame playback.

#### OR

Press PAUSE.

OR

Press PUSH JOG ⊲ or ▷.

To resume normal playback, press PLAY.

## **Slow Motion**



### ACTIVATE SLOW-MOTION PLAYBACK

During playback or still, turn the **SHUTTLE** ring to the right for forward slow motion, or to the left for reverse slow motion (refer to the above illustration).

#### OR

During still picture, press and hold **PAUSE** for 2 seconds, then release. Press and release again to return to still picture.

#### OR

During still picture, press and hold **PUSH JOG**  $\triangleleft$  or  $\triangleright$ . Release to return to still picture.

To resume normal playback, press PLAY.

#### NOTE:

Manual tracking is possible during slow motion playback. (🖙 pg. 15)

#### ATTENTION

In the search, still, slow-motion or frame-by-frame playback mode,

- the picture will be distorted.
- the noise bars will appear.
- there may be a loss of colour.

## Variable-Speed Search

### ACTIVATE VARIABLE-SPEED SEARCH

During playback or still, turn the **SHUTTLE** ring to the right for forward variable-speed search, or to the left for reverse variable-speed search (refer to the illustration on page 14).

#### OR

During playback, press **PUSH JOG**  $\triangleleft$  or  $\triangleright$ .

- The more times you press, the faster the playback picture moves.
- To decrease speed, press the button for the opposite direction.

To resume normal playback, press **PLAY**.

## Index Search

Your recorder automatically marks index codes at the beginning of each recording. This function gives you quick access to any one of 9 index codes in either direction.



#### NOTE:

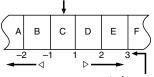
Before starting, make sure the recorder is in the Stop mode.

## ACTIVATE INDEX SEARCH

Press **PUSH JOG**  $\triangleleft$  or  $\triangleright$  ( $\bowtie \triangleleft$  or  $\triangleright \bowtie$ ) on the remote control. " $\bowtie \triangleleft$  1" or " $\triangleright \mapsto$  1" is displayed on screen and search begins in the corresponding direction.

- To access index codes 2 through 9, press PUSH JOG
   ⊲ or ▷ repeatedly until the correct index number is displayed.
  - Ex.: To locate the beginning of B from the current position, press PUSH JOG < twice.</li>
     To locate the beginning of D from the current position, press PUSH JOG ▷ once.

Current position

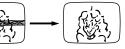


Index number

• When the specified index code is located, playback begins automatically.

## **Manual Tracking**

Your video recorder is equipped with automatic tracking control. During playback, you can override this and adjust the tracking manually by pressing the **PR** +/– buttons.



#### OVERRIDE AUTOMATIC TRACKING

Press //// (SP/LP/EP) on the remote to engage manual tracking.

### ADJUST TRACKING MANUALLY



Press **PR +/-** to adjust tracking.

#### RETURN TO AUTOMATIC TRACKING



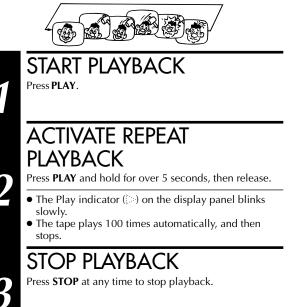
Press **//// (SP/LP/EP)** on the remote to re-engage automatic tracking.

### NOTE:

When a new tape is inserted, the recorder enters the automatic tracking mode automatically.

## **Repeat Playback**

Your video recorder can automatically play back the whole tape 100 times repeatedly.



#### NOTE:

Pressing PLAY, REW, FF or PAUSE also stops Repeat Playback.

### PLAYBACK (cont.)

### **Next Function Memory**

The Next Function Memory "tells" the recorder what to do after rewinding. Before continuing, ensure that the recorder is in the Stop mode.

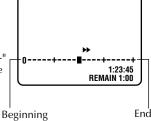
- **a** For Automatic Start Of Playback After Tape Rewind... ...press **REW**, then press **PLAY** within 2 seconds.
- b- For Automatic Power Off After Tape Rewind... ...press **REW**, then press O/I within 2 seconds.
- c– For Automatic Timer Standby After Tape Rewind... ...press **REW**, then press **②** within 2 seconds.

#### NOTE:

It is not possible to select the Automatic Timer functions if the cassette's record safety tab is removed.

### **Tape Position Indicator**

The tape position indicator appears on screen when, from the Stop mode, you press **FF**, **REW** or perform an Index Search. The position of "■" in relation to "0" (beginning) or "+" (end) shows you where you are on the tape. "O.S.D." (CP pg. 10) must be set to "ON", or the indicator will not appear.



#### NOTE:

Depending on the type of tape used, there may be times when the indication is not correct.

## **Skip Search**



#### SKIP OVER UNWANTED SECTIONS

Press **30 SEC** 1 to 4 times during playback. Each press initiates a 30-second period of fast-motion playback. Normal playback resumes automatically.

#### NOTE:

To return to normal playback during a Skip Search, press PLAY.

### Instant ReView

Simply by pressing a single button, the recorder power comes on, rewinds, and begins playback of the last timer-recorded programme. If you have several programmes recorded, you can easily access any of them.

#### NOTE:

Before starting, make sure that the recorder is off and that the Timer mode is disengaged.



Press **REVIEW**. The recorder power comes on and the recorder searches for the index code indicating the start of the last timer-recorded programme. Once it's found, playback begins automatically.

• The front display panel tells you how many programmes have been recorded. If you have, for example, 3 programmes, "REVIEW" and "3" appear and blink. To watch the first of the 3 programmes, press **REVIEW** <u>three times</u>. The recorder searches and begins playback automatically. You can access a programme as far as 9 index codes away from the current tape position.

#### NOTE:

Instant ReView is not possible while the recorder is in the Timer mode.

## Soundtrack Selection

Your video recorder is capable of recording three soundtracks (HI-FI L, HI-FI R and NORM) and will play back the one you select.

#### **During Playback**

Pressing AUDIO on the remote control changes the soundtrack being played back as follows:

TRACK		
Recorder's Front Panel	On-Screen Display	USE
P	HIFI L III R	For Hi-Fi stereo tapes
Þ	HI FI L 🏚	For main audio of Bilingual tapes
R	HI FI I R	For sub audio of Bilingual tapes
NORM	NORM	For audio-dubbed tapes
D NORM	HI FI NORM	For audio-dubbed tapes

#### **NOTES:**

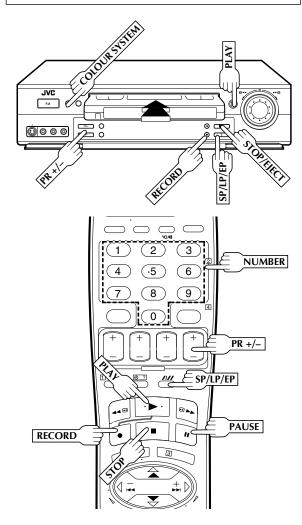
- " [D] [d]" should normally be selected. In this mode, Hi-Fi stereo tapes are played back in stereo, and the NORM track is played back automatically for tapes with only normal audio.
- For instructions on recording stereo and bilingual programmes, refer to page 19.
- "O.S.D." must be set to "ON" or the on-screen displays will not appear (t͡] pg. 10).

### RECORDING

# <sub>en</sub> 17

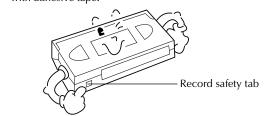
# Basic Recording

Turn on the TV and select the VIDEO channel (or AV mode).



#### Accidental erasure prevention

• To prevent accidental recording on a recorded cassette, remove its safety tab. To record on it later, cover the hole with adhesive tape.



TV signals being received by the recorder's built-in tuner can be recorded onto a video tape. You can "capture" a TV programme using your video recorder.

S-VHS recording is possible only for PAL recordings made in the SP or LP mode, or NTSC recordings made in the SP mode. S-VHS ET recording is possible only for PAL recordings made in the SP mode, or NTSC recordings made in the SP mode.

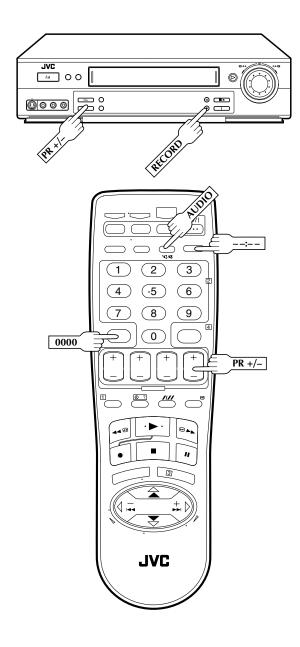
the SP	mode, or NTSC recordings made in the SP mode.
1	LOAD A CASSETTE Insert a cassette with the record safety tab intact.
	<ul> <li>The counter is reset to 0:00:00 and the recorder power comes on automatically.</li> <li>Select the appropriate colour system by pressing the COLOUR SYSTEM button (III) pg. 44).</li> </ul>
2	CHOOSE A PROGRAMME Press PR +/- or the NUMBER keys to select the channel you wish to record.
	SET TAPE SPEED
3	Press <b>SP/LP/EP</b> (////). Check the SP/LP/EP indicator on the recorder display panel to confirm the selected tape speed.
	START RECORDING
4	Press and hold <b>RECORD</b> and <b>PLAY</b> on the remote control, or press <b>RECORD</b> on the recorder.
	B.E.S.T. takes place at the beginning of each first SP and first LP (or EP) recording after inserting the cassette (IP pg. 22).
	PAUSE/RESUME RECORDING
5	Press PAUSE. Press PLAY to resume recording.
	STOP RECORDING
6	Press <b>STOP</b> on the remote control or <b>STOP/EJECT</b> on the recorder. Then press <b>STOP/EJECT</b> to remove the cassette.
NO	<b>TE:</b> recording in NTSC, if EP is selected, recording will

When recording in NTSC, if EP is selected, recording will always be done in the VHS mode even if an S-VHS cassette is used.

### Recording Resume Function

If there is a power outage during recording (or Instant Timer Recording or timer recording), the recording will resume automatically when power is restored to the recorder unless the recorder's memory backup has expired.

# Recording Features



#### Record One Programme While Watching Another

### SELECT CHANNEL TO WATCH

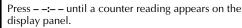
Once recording is in progress, all you need to do is to set the channel controls on the TV for the station you wish to view.

• The programme selected with the TV's channel controls appears on the TV screen while the one selected with the **PR +/–** buttons is recorded on the tape.

### Elapsed Recording Time Indication

You can check the exact time of a recording.

### SET COUNTER DISPLAY



 By pressing the - -:- - button, you can change the display to show the counter reading, channel position\*, clock time or tape remaining time.
 \*Channel position is not displayed during playback.

### **RESET COUNTER**

Press 0000 before starting recording or playback.

• The counter is reset to "0:00:00" and shows the exact elapsed time as the tape runs.

### Instant Timer Recording (ITR)

This easy method lets you record for from 30 minutes to 6 hours (selectable in 30-min. increments), and shuts the recorder off after recording is finished.

### START RECORDING

Press **RECORD** on the recorder.

## ENGAGE ITR MODE

Press **RECORD** again. "O" blinks and 0:30 appears on the front display panel.

## SET RECORDING DURATION

If you want to record for more than 30 minutes, press **RECORD** to extend the time. Each press extends recording time by 30 minutes.

#### NOTE:

You can only perform ITR using the **RECORD** button on the recorder's front panel.

## **Tape Remaining Time**

## DISPLAY REMAINING TIME

- The display panel shows the tape remaining time with " displayed.
- By pressing the --- button, you can change the display to show the counter reading, channel position\*, clock time or tape remaining time.
   \* Channel position is not displayed during playback.

### NOTE:

Depending on the type of tape used, there may be times when the tape remaining time reading may not appear right away, or is not correct. "--:--" may sometimes appear, or the display may blink on occasion.

### Receiving Stereo And Bilingual Programmes

Your recorder is equipped with a Sound-Multiplex decoder (A2) and a Digital stereo sound decoder (NICAM) as well, making reception of stereo and bilingual broadcasts possible.

When the channel is changed, the type of broadcast being received will be displayed on the TV screen for a few seconds.

Type of Broadcast Being Received	On-screen Display
A2 Stereo	ST
A2 Bilingual	BIL
Regular Monaural	(none)
NICAM Stereo	ST NICAM
NICAM Bilingual	BIL NICAM
NICAM Monaural	NICAM

- To listen to a stereo programme, press AUDIO until ''[⊡]' and "[]]" appear on the front display panel or "HIFI L []• •] R" appears on the screen.
- To listen to a bilingual programme, press AUDIO until "▷" or "☑" appears on the front display panel, or "HIFI L I™" or "HIFI ▲ R" appears on the screen (as required).
- To listen to the Standard (regular monaural) audio while receiving a NICAM broadcast, press **AUDIO** until "NORM" appears on the front display panel or on the screen.

#### NOTE:

"O.S.D." must be set to "ON" or the on-screen displays will not appear (🖙 pg. 10).

### To Record Stereo And Bilingual Programmes (A2)

- Stereo programmes are automatically recorded in stereo on the Hi-Fi audio track (with the normal audio track recording mixed L and R channel sound).
- Bilingual programmes are automatically recorded in bilingual on the Hi-Fi audio track. The main soundtrack will be recorded on the normal audio track.

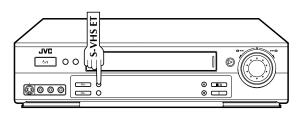
### To Record NICAM Stereo And Bilingual Programmes

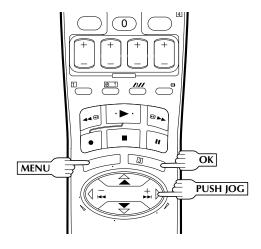
The NICAM audio programme will be recorded on the Hi-Fi audio track, and the Standard audio programme on the normal audio track.

#### NOTES:

- If the quality of stereo sound being received is poor, the broadcast will be received in monaural with better quality.
- Before playing back a programme recorded in stereo, or a bilingual programme, refer to "Soundtrack Selection" (IF pg. 16).

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#### ATTENTION

- S-VHS recording is possible only for PAL recordings made in the SP or LP mode, or NTSC recordings made in the SP mode.
- S-VHS ET recording is possible only for PAL recordings made in the SP mode, or NTSC recordings made in the SP mode.
- When recording NTSC signals in S-VHS or S-VHS ET, be sure to select "AUTO" or "NTSC3.58" by pressing the COLOUR SYSTEM button (IF pg. 44).

#### NOTES:

- When playing back a tape that has been recorded in S-VHS or S-VHS ET, the S-VHS indicator lights on the display panel regardless of the "S-VHS" mode setting.
- Tapes recorded in S-VHS or S-VHS ET mode can not be played back successfully on normal VHS recorders.

### S-VHS (Super VHS), S-VHS ET and VHS

Your recorder can record in S-VHS, S-VHS ET or VHS.

S-VHS allows you to make high quality video recordings with a horizontal resolution of 400 lines. This compares with the 240 lines of resolution of normal VHS recordings. To achieve the highest quality picture we recommend that you record in S-VHS mode.

By using S-VHS ET it is possible to record and play back with S-VHS picture quality on VHS cassettes with this recorder. For details, refer to page 21.

#### To record in S-VHS;

- perform the steps 1 4 below to set the "S-VHS" to "ON".
- then, insert a cassette marked "S-VHS", the S-VHS indicator will light on the display panel.

The S-VHS recording mode will be automatically selected. To record in S-VHS ET on a VHS high grade cassette;

- press S-VHS ET and set to "ON".
- "Super VHS ET" on page 21.

#### To record in VHS;

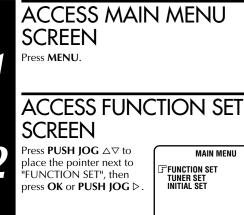
- insert a cassette marked "VHS".
- press S-VHS ET and set to "OFF".

The VHS recording mode will be automatically selected regardless of the S-VHS mode setting.

#### To record in VHS on an S-VHS cassette;

- insert the cassette marked "S-VHS", the S-VHS indicator will light on the display panel.
- then, perform the steps 1 4 below to set the "S-VHS" to "OFF"; the S-VHS indicator will go out.

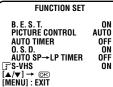
The VHS recording mode will be selected.







"ON" or "OFF".



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#### **RETURN TO NORMAL SCREEN** Press MENU.



3

### **Super VHS ET**

Your recorder is equipped with Super VHS ET that makes it possible to record with S-VHS picture quality on VHS cassettes.

### SELECT S-VHS ET SET MODE

- Press S-VHS ET. The button lights up.
- The "S-VHS" indicator lights on the front display panel.
- To disengage the S-VHS ET mode, press **S-VHS ET.** The button's light goes off.

#### **NOTES:**

- You cannot activate the S-VHS ET function...
  - ...while recording is in progress. ...while timer-recording (incl. Instant Timer Recording 🖙 pg. 19) is in progress.
  - ...while B.E.S.T. ( $\square$  pg. 22) is in progress.
  - ...when the recorder's power is off.
- S-VHS ET does not work with S-VHS tapes.

#### S-VHS ET

VHS ET

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JVC

6000

This facility allows recording with S-VHS picture quality on VHS cassettes. You can play back those cassettes recorded in S-VHS ET on a recorder equipped with S-VHS ET.

#### NOTES:

- To obtain the highest quality recording and playback pictures over a longer period on this model, S-VHS recording on S-VHS tape is recommended.
- You can play back S-VHS ET recordings not only on this recorder but also on another VHS recorder equipped with S-VHS ET.
   It is recommended to specifically label S-VHS ET recordings so you can easily distinguish them from regular VHS recordings.
- S-VHS ET recordings can also be played back on an S-VHS recorder or a VHS recorder equipped with SQPB (S-VHS QUASI PLAYBACK) function. However, there may be cases where S-VHS ET playback is not possible on a particular recorder.
- Frequent still, frame-by-frame and slow-motion playback may damage the tape and cause picture degradation.
- With some tapes, better picture quality may not be obtained even with S-VHS ET recording. It is recommended that you do test record beforehand to make sure whether better results can be obtained.
- High Grade tapes are recommended for superior results.
- Make sure that "B.E.S.T." is set to "ON" (r pg. 22).
- During S-VHS ET playback, noise may appear depending on tape quality.
- Noise may appear during search, still, frame-by-frame and slow-motion playback.

0 **•** 

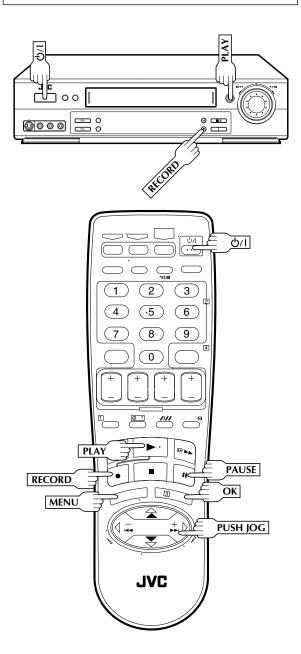
• If the playback picture becomes blurred or interrupted, use a cleaning cassette.

## $22_{EN}$

### RECORDING (cont.)

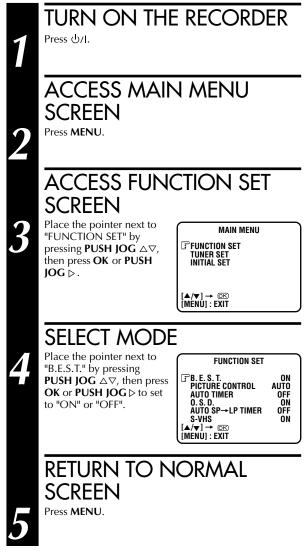
# B.E.S.T. Picture System

Turn on the TV and select the VIDEO channel (or AV mode).



The B.E.S.T. (Biconditional Equalised Signal Tracking) system checks the condition of the tape in use during recording and playback, and compensates to provide the highest-possible recording and playback pictures. The default setting for both recording and playback is "ON".

## Preparation



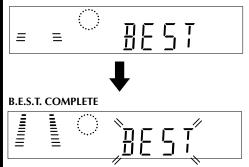
## Recording



#### START RECORDING

Press and hold **RECORD** and press **PLAY** on the remote, or press **RECORD** on the recorder.

#### DURING B.E.S.T.



• The recorder spends approximately 7 seconds assessing the condition of the tape, then begins recording.

#### **NOTES:**

- The B.E.S.T. system works for both SP and LP (or EP) modes only after a tape has been inserted and the Record mode is first initiated. It does not work during recording.
- In the case of timer recording, the B.E.S.T. system works before recording is initiated.
- Once the cassette is ejected, the B.E.S.T. data is cancelled. The next time the cassette is used for recording, B.E.S.T. is reperformed.
- Pressing the recorder's **RECORD** button while "BEST" is displayed does not start Instant Timer Recording (CF pg. 19).

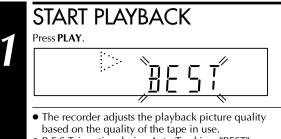
#### ATTENTION

Since the B.E.S.T. system works before recording actually starts, there is a delay of approximately 7 seconds after **RECORD** and **PLAY** on the remote are pressed, or **RECORD** on the recorder is pressed. To make sure you record the desired scene or programme in its entirety, first perform the following steps:

- 1) Press and hold **PAUSE** and press **RECORD** to engage the RECORD PAUSE mode.
  - The recorder then automatically checks the condition of the tape and, after approximately 7 seconds, reenters RECORD PAUSE.
- 2) Press PLAY to start recording.
  - If you want to bypass the B.E.S.T. system and begin recording immediately, set "B.E.S.T." to "OFF" in step **4** on page 22.

## Playback

The recorder assesses the quality of the tape once you initiate playback.



• B.E.S.T. is active during Auto Tracking. "BEST" appears blinking on the recorder's display panel.

#### **NOTES:**

- When watching a tape recorded with "B.E.S.T." set to "ON", it is recommended that you leave B.E.S.T. on during playback as well.
- When watching a rental tape or one recorded on another video recorder, or when using this recorder as the player for editing, set B.E.S.T. to your preference by performing steps **1** through **5** on page 22.
- "BEST" only appears at the beginning of automatic tracking. Even though it doesn't appear after that, the B.E.S.T. function is operative.

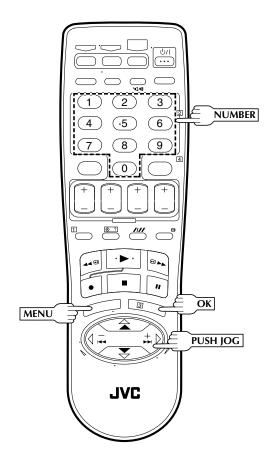
### TIMER RECORDING

# G-code<sup>™</sup>/ShowView<sup>™</sup> System Setup

Turn on the TV and select the VIDEO channel (or AV mode).

#### **INFORMATION**

G-CODE and SHOWVIEW are different trademarks used to represent the same easy recording feature, but only the term G-CODE system will be used in the instructions. If you use the SHOWVIEW system, follow the same instructions listed for the G-CODE system.



The G-CODE timer programming system eliminates the need to input channel, date, start and stop time data when setting the timer record function. Simply key in the G-CODE number for the TV programme you wish to record (found in most TV listings) and the recorder's timer is automatically programmed.

You have to set "GUIDE PROG" numbers, which are assigned to each station for purposes of G-CODE timer programming, for all the stations stored in your recorder's memory to get proper results.

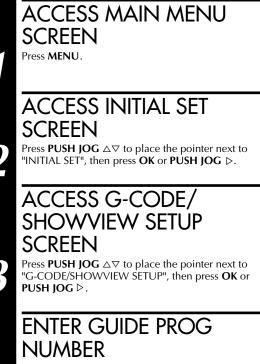
Before G-CODE system setup you must have performed the following procedures:

- Tuner setting (🖙 pg. 8, 46)
- Clock setting (EF pg. 12)

#### IMPORTANT

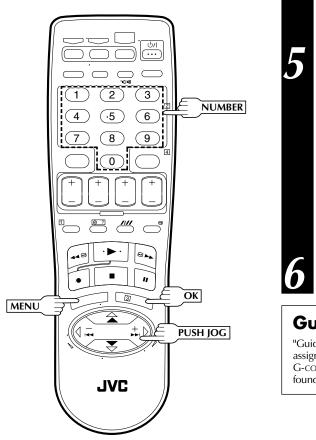
Perform the following procedure after Auto Set Up on page 8 and/or the channel setting steps on pages 46–49. After setting the Guide Program Numbers, channel positions may be incorrect if you stored or skipped channels. In this case, re-perform Guide Program Number setting.

### **Guide Program Number Set**



Press **PUSH JOG**  $\triangle \bigtriangledown$  or **NUMBER** keys to enter the Guide Program number for the desired station as shown in the TV listings. Then  $\triangleright$ press **OK** or **PUSH JOG**.





#### ENTER RECEIVING CHANNEL POSITION NUMBER Press **PUSH JOG** △▽ or **G-CODE/SHOWVIEW SETUP** NUMBER keys to input the number of the recorder's GUIDE PROG TV PROG channel position on which **\_2** 2 the Guide Program number's broadcast is [0-9] OR $[\blacktriangle/ ]$ :SELECT $\rightarrow \bigcirc$ [menu] : Exit received. Then press OK or **PUSH JOG** ⊳. • If the satellite broadcast is received on your recorder's auxiliary channel "L-1", select "L-1" for the channel position. • Repeat steps 4 and 5 as necessary. **RETURN TO NORMAL SCREEN** Press MENU.

### Guide Program Number

"Guide Program (GUIDE PROG) number" refers to the assigned TV station numbers, according to broadcast area, for G-CODE timer recording. The Guide Program numbers can be found in most TV listings.

# $26_{\scriptscriptstyle EN}$

# G-code<sup>™</sup>/ShowView<sup>™</sup> Timer Programming

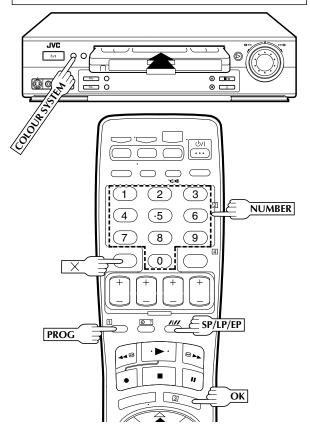
Remember, the clock must be set before you can programme the timer (17 pg. 10).

#### INFORMATION

G-CODE and SHOWVIEW are different trademarks used to represent the same easy recording feature, but only the term G-CODE system will be used in the instructions. If you use the SHOWVIEW system, follow the same instructions listed for the G-CODE system.

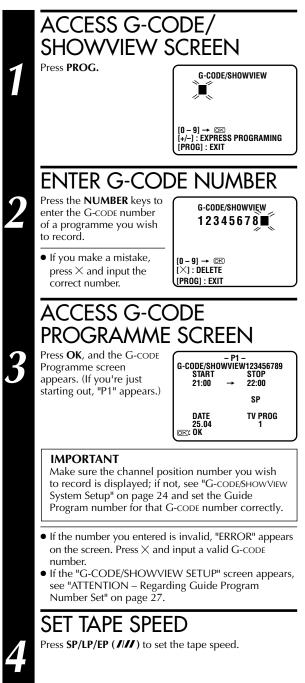
#### Before performing G-CODE/SHOWVIEW Timer Programming:

- Be sure to read "G-CODE/SHOWVIEW System Setup" [1] pg. 24).
- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).
- Select the appropriate colour system by pressing the **COLOUR SYSTEM** button (III) pg. 44).

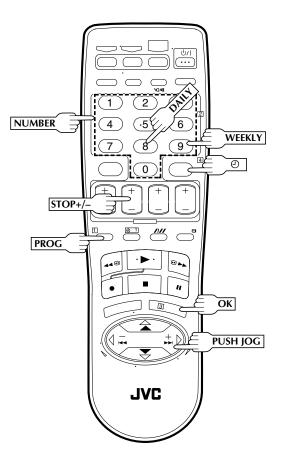


TIMER RECORDING (cont.)

With the G-CODE system , timer programming is greatly simplified because each TV programme has a corresponding code number which your recorder is able to recognise.







#### Satellite Tuner Users

To timer-record a satellite broadcast using the G-CODE system:

- 1 Perform steps 1 6.
- 2 Set the satellite tuner to the appropriate channel before the selected programme begins.
- 3 Leave the satellite tuner's power on.

### RETURN TO NORMAL SCREEN

Press **PROG** or **OK**. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

• Repeat steps 1 – 5 for each additional programme.

### ENGAGE RECORDER'S TIMER MODE



Press  $\mathbf{\Theta}$ . The recorder turns off automatically and " $\mathbf{\Theta}$ " appears on the display panel.

• To disengage the timer, press 🕘 again.

#### **NOTES:**

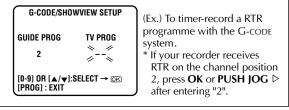
- To Change The Stop Time . . .
- ... press **STOP** +/- after pressing **OK** in step **3**. You can compensate for anticipated programme schedule delays this way.
- To Timer-Record Weekly Or Daily Serials . . . . . . after pressing **OK** in step **3**, press **WEEKLY** (**NUMBER** key "9") for weekly serials or **DAILY** (**NUMBER** key "8") for daily serials (Monday – Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again makes the corresponding indication disappear.
- You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen. To record the extra programme, you must first cancel any unnecessary programmes (CF pg. 30).
- It is not possible to timer-record a TV programme with a G-CODE number which starts with "0".

#### ATTENTION

#### **Regarding Guide Program Number Set**

"G-CODE/SHOWVIEW SETUP" appears after performing step **3** if the Guide Program number for the G-CODE number you entered has not been set.

Press the NUMBER keys or PUSH JOG △▽ to input the channel position number on which your recorder receives that station, then press OK or PUSH JOG ▷. The G-CODE program screen appears.



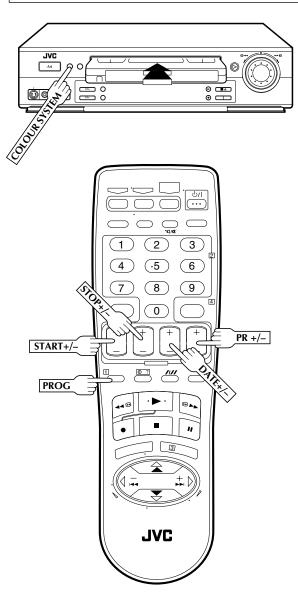
# 28<sub>EN</sub> Express Timor

# Express Timer Programming

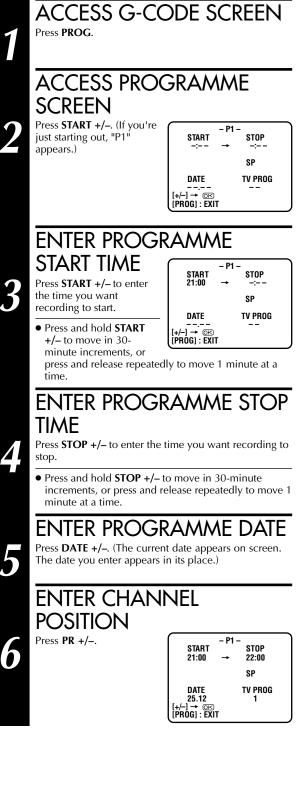
Remember, the clock must be set before you can programme the timer (IIP pg. 12).

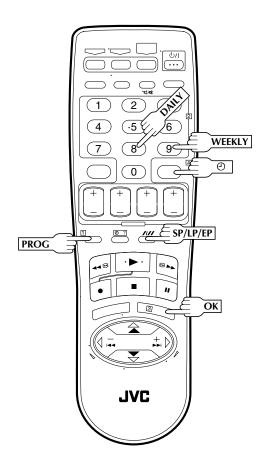
Before performing the following steps:

- Insert a cassette with the safety tab in place. The recorder will come on automatically.
- Turn on the TV and select the VIDEO channel (or AV mode).
- Select the appropriate colour system by pressing the **COLOUR SYSTEM** button (**C** pg. 44).



TIMER RECORDING (cont.)





## Set tape speed

Press SP/LP/EP (////) to set the tape speed.

#### RETURN TO NORMAL SCREEN

After confirming all information is correct, press **PROG** or **OK**. "PROGRAM COMPLETED" appears on the screen for about 5 seconds, then normal screen appears.

• Repeat steps 1 – 8 for each additional programme.

### ENGAGE RECORDER'S TIMER MODE

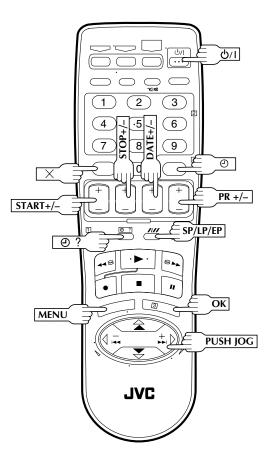
Press  $\mathbf{O}$ . The recorder turns off automatically and " $\mathbf{O}$ " appears on the display panel.

• To disengage the timer, press **④** again.

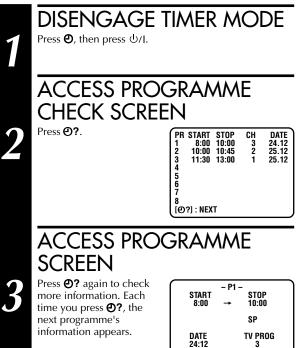
#### **NOTES:**

8

- To Timer-Record Weekly Or Daily Serials . . . . . . anytime during steps 2 through 8, press WEEKLY (NUMBER key "9") for weekly serials or DAILY (NUMBER key "8") for daily serials (Monday–Friday). Either "WEEKLY" or "DAILY" appears on the screen. Pressing the button again
- makes the corresponding indication disappear.
  You can programme this recorder to timer-record as many as 8 programmes. If you try to programme the recorder to record a ninth, "PROGRAM FULL" appears on screen. To record the extra programme, you must first cancel any unnecessary programmes (IFF pg. 30).



### Check, Cancel And Replace Programmes



#### To cancel or replace a programme...

[@?] : NEXT

### CANCEL OR REPLACE A PROGRAMME

Press × to cancel a programme. To replace a programme, press the appropriate button: **START**+/-, **STOP**+/-, **DATE**+/-, **PR**+/-, **SP**/LP/EP (///).

### RETURN TO NORMAL SCREEN

Press O? as many times as necessary. If there are still some programmes remaining, go on to step **6**.

### RETURN TO TIMER MODE

Press 🕘.



# When programmes overlap each other

If "PROGRAM OVERLAPPED" appears, you have another programme overlapping the programme you have just made. The Programme Check screen appears and conflicting programmes will start blinking.

PROGRAM OVERLAPPED

(PR	START	STOP	CH	DATE
11	8:00	10:00	3	24.04
12	10:00	10:45	2	25.04
13	11:30	13:00	1	25.04
4	9:00	10:00	92	DAILY
5				
6				
17				
8				
Ĩ <b>▲</b> /'	▼] →	(OK)	[PROG	1:EXIT
· · ·		_	•	•

Example: Programme 1 (you have just made) and Programme 4 overlap each other.

### CONFIRM THE OVERLAP-PING PROGRAMMES

Overlapping programmes blink on the TV screen.

### SELECT THE PROGRAMME TO MODIFY

Press **PUSH JOG**  $\triangle \nabla$ , then press **OK** or **PUSH JOG**  $\triangleright$ .

• You can only select one of the overlapping programmes.

### NOTE:

If you do not mind this overlap, press **PROG** to finish the timer programme setting. The programme with the lower programme number will be recorded and the other one will not be recorded correctly. If no changes are made for approximately 1 minute, the recorder will return to the normal screen.

### CANCEL OR CHANGE PROGRAMME SETTING

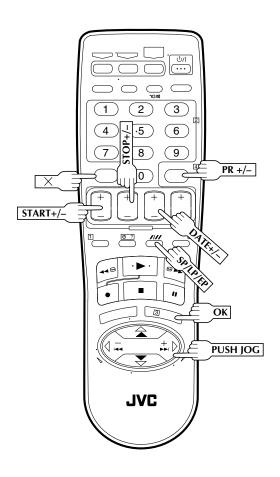
To cancel a programme, press  $\times$  when the Programme screen you do not want is shown. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears.

To change a programme, press the appropriate button: START+/-, STOP +/-, DATE+/-, PR+/- and/or SP/LP/EP (////) when the Programme screen on which you want to make changes is shown, then press OK. "PROGRAM COMPLETED" appears on the TV screen for about 5 seconds, then the normal screen appears.

### NOTE:

3

If the overlap is not yet solved, or another overlap occurs with the timer programme setting after making the last correction on a programme, the conflicting programmes will be shown on the Programme Check screen again. Repeat the above steps again until the overlap is solved.



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### Auto SP→LP Timer

If, when timer-recording in SP mode, there is not enough tape to record the entire programme, the recorder automatically switches to LP mode (with PAL broadcasts) or EP mode (with NTSC broadcasts) to allow complete recording.

#### For Example . . .

Recording a PAL-broadcast programme of 210 minutes in length onto a 180-minute tape.

Approximately 150 minutes Approximately 00 minutes	Approximately 150 minutes	Approximately 60 minutes
--	---------------------------	--------------------------

SP mode LP mode

Total 210 minutes

Make sure you set "AUTO SP $\rightarrow$ LP TIMER" to "ON" at the Function Set screen before the timer-recording starts.

## ACCESS MAIN MENU SCREEN

Press MENU.

# ACCESS FUNCTION SET

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "FUNCTION SET", then press **OK** or **PUSH JOG**  $\triangleright$ .

## SELECT MODE

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "AUTO SP $\rightarrow$ LP TIMER", then press **OK** or **PUSH JOG**  $\triangleright$  to select "ON".

FUNCTION SET	
B.E.S.T. PICTURE CONTROL AUTO TIMER O.S.D. GAUTO SP→LP TIMER S-VHS [A/▼] → ©⊠ [MENU] : EXIT	ON AUTO OFF ON OFF ON

### RETURN TO NORMAL SCREEN

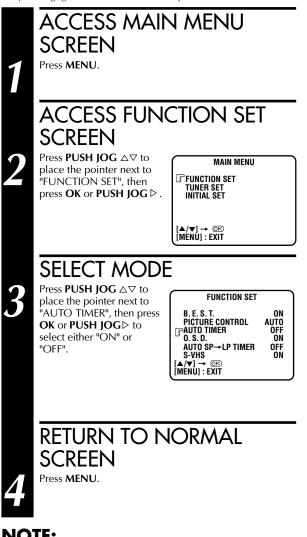
Press MENU.

### NOTES:

- If you have programmed the recorder to timer-record 2 or more programmes, the second programme and those thereafter may not fit on the tape if you set "AUTO SP→LP TIMER" to "ON". In this case, make sure the mode is not engaged, then set the tape speed manually during timer programming.
- In order to ensure that the recording fits on the tape, this feature may leave a slight non-recorded section at the end of the tape.
- There may be some noise and sound disturbance at the point on the tape where the recorder switches from SP to LP (or EP) mode.
- The Auto SP→LP Timer feature is not available during ITR (Instant Timer Recording), and the feature will not work properly with any tapes longer than E-180 or with some tapes of shorter lengths.

### **Auto Timer**

When the Auto Timer is set to ON the timer is automatically engaged when the recorder power is turned off and automatically disengaged when the recorder is powered back on.

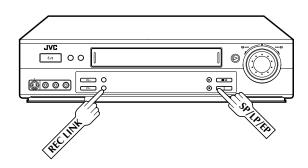


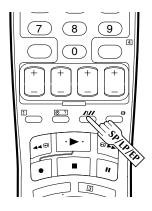
#### NOTE:

For safety, when Auto timer is set to "OFF", all other recorder functions are disabled while the Timer mode is engaged. To disengage the timer, press  $\mathfrak{O}$ .



# Automatic Satellite Program Recording





This facility allows you to automatically record a satellite program which is timer-programmed on your external satellite receiver. Connect a satellite receiver to the recorder's rear AUDIO/VIDEO IN connectors and program the timer on the satellite receiver; the recorder starts recording when the signals input from the satellite receiver to the rear AUDIO/VIDEO IN connectors, and when there is no input signals the recorder stops recording and the power shuts off.

#### Before performing the following steps:

- Program the timer on the satellite receiver.
- Insert a cassette with the safety tab in place.



Press SP/LP/EP to set the tape speed.

#### ENGAGE AUTO SATELLITE PROG REC MODE

Press and hold **REC LINK** for about 2 seconds. The button lights up and the recorder turns off automatically.

- To disengage the Auto Satellite Prog Rec mode, press **REC LINK**. The button goes off.
- If the recorder's power is off, it is not possible to engage the Auto Satellite Prog Rec mode.

#### ATTENTION

- Be sure not to turn on the satellite receiver before the program is executed; otherwise, the recorder will start recording when the satellite receiver's power is turned on.
- If you have connected another appliance other than a satellite receiver to the rear AUDIO/VIDEO IN connectors, be sure not to engage the Auto Satellite Prog Rec mode; otherwise, the recorder will start recording when the connected appliance's power is turned on.
- Auto Satellite Prog recording and timer-recording cannot be done at the same time.

#### NOTES:

- Auto Satellite Prog recording is only possible with the rear AUDIO/VIDEO IN connectors.
- When the Auto Satellite Prog Rec mode is engaged or the recorder's power is turned off after Auto Satellite Prog recording is finished, the recorder will not enter the Timer mode even though "AUTO TIMER" is set to "ON".
- For timer programming of the satellite receiver, refer to the instruction manual of the satellite receiver.
- Auto Satellite Prog recording is not possible if your satellite receiver does not have a timer.
- The button's light blinks while Auto Satellite Prog recording is in progress.
- Pressing the recorder's ひハ button while Auto Satellite Prog recording is in progress turns off and recorder's power and disengages the Auto Satellite Prog Rec mode.
- If there is more than one satellite program you wish to record with Auto Satellite Prog Recording, it is not possible to set a different tape speed for each; the tape speed selected in step 1 will apply to all the programs for Auto Satellite Prog recording.
- The B.E.S.T. ( IF pg. 20) does not work while Auto Satellite Prog recording is in progress.
- Depending on the type of satellite receiver, the recorder may not record a short portion at the beginning of the program or may record slightly longer than the actual length of the program.
- If you engage the Auto Satellite Prog Rec mode when the satellite receiver's power is on, the recorder will not start Auto Satellite Prog recording even though the button's light blinks. When the satellite receiver shuts off once and is turned back on again, the recorder starts recording.
- You can also record a program from your cable system in the same way if the system has a timer and is connected to the recorder's rear AUDIO/VIDEO IN connectors.
- When you press the recorder's **REC LINK** button to engage the Auto Satellite Prog Rec mode, if the **REC LINK** button does not light but instead blinks quickly even though your satellite receiver's power is off, Auto Satellite Prog Recording will not work properly with that satellite receiver.

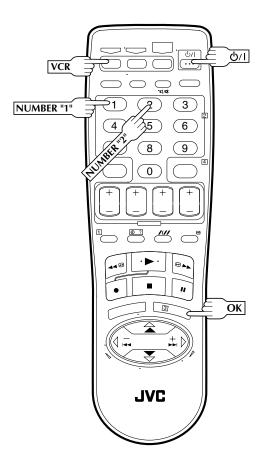
If this is the case, perform "Express Timer Programming" ( I pg. 26) to timer-record a satellite program. \* Some satellite receivers output signals even if the power is off. Auto Satellite Prog Recording is not possible with those satellite receivers.

 After Automatic Satellite Program Recording, the number of recorded programs will not be displayed on the front display panel for the instant Review function ( pg. 16).

### SPECIAL FEATURES

# Remote Control Functions

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### Remote A/B Code Switching

The remote control is capable of controlling two JVC video recorders independently; one set to respond to the remote control's A code control signals and another set to respond to B code control signals. The remote control is preset to send A code signals because your video recorder is initially set to respond to A code signals. You can easily modify your video recorder to respond to B code signals.

### REMOVE POWER SUPPLY

Unplug the mains power cord from the mains outlet.

# SET REMOTE CONTROL

While holding down VCR on the remote control, press the NUMBER key "2" and then press OK.

## **RE-SUPPLY POWER**

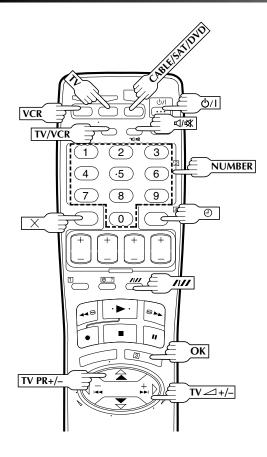
Plug the mains power cord back into the mains outlet.

### TURN THE RECORDER ON

Press O/I on the remote control. The recorder will now only respond to B code signals.

#### NOTE:

To set the recorder back to respond to A code signals, repeat the same procedure as shown above except pressing **NUMBER** key "1" instead of "2" in step **2**.



#### ATTENTION

The remote control can operate not only the video recorder but also some of your TV, cable box, satellite receiver and DVD.

- To operate your video recorder, first press the VCR button to set the remote control to the Video mode.
- To operate your TV, first press the **TV** button to set the remote control to the TV mode.
- To operate your satellite receiver, cable box or DVD, first press the **CABLE/SAT/DVD** to set the remote control to the satellite receiver, cable box or DVD mode.

#### Control Your TV Using Additional Buttons

Use the NUMBER keys, and the //// button,  $\times$  button or O button to select the TV's channel.

- With televisions under Code 01, 02, 07, 08, 10, 11, 14, 20, 22, 23, 24, 25, 27, 33, 35, 38, 40 or 42, the //// button corresponds to the 1-digit/2-digit entry switching button (often labelled /– –) of your TV's remote control.
- With televisions under Code 01, 16, 28, 29, 34 or 39, the × button corresponds to the 10 + button, and the <sup>①</sup> button corresponds to the 20 + button of your TV's remote control.

#### NOTE:

The way these buttons are used is determined by your TV. Use these buttons as instructed for your TV's remote control.

#### TV Multi-brand Remote Control

Your remote control can operate the basic functions of your TV set. In addition to JVC TVs, other manufacturer's TVs can also be controlled.

Before you start . . .

• Turn on the TV using its remote control.

### SET TV BRAND CODE

Refer to the chart below. While holding down **TV** on the recorder's remote control, enter your TV's brand code using the **NUMBER** keys, then press **OK**. Check if the TV's power goes off as it should. If it does, try other operations ( $\mathbb{LF}$  step **2**).

- Once you have set the remote control to operate the TV, you don't have to repeat this step until you replace your remote control's batteries.
- Some TV brands have more than one code. If the TV does not function with one code, try entering another.

## OPERATE TV

First, press **TV** to set the remote control to TV mode, then press the corresponding button: ⑴/I, **TV PR +/-**, **TV/VCR, TV** → +/- (Volume), ☑/☑ (Muting), **NUMBER** keys.

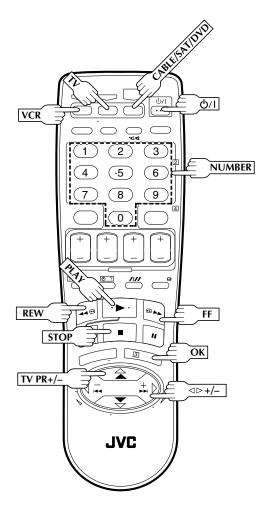
• For some brands of TV, you must press **OK** after having pressed the **NUMBER** keys.

#### IMPORTANT

Although the provided remote control unit is compatible with JVC televisions, as well as many other models, <u>it may not work</u> with your TV, or in some instances, may have limited function <u>capability</u>.

TV BRAND NAME	CODE
IVC	01, 23, 24, 25
AIWA	36
BEIJING	22
CCE	02
CHANGHONG	34
DAEWOO	17, 37
FERGUSON	27
FINLUX	30
FUNAI	32
GRADIENTE	15
GRUNDIG	19
HITACHI	10
ITT	28
JINXING	38
KONKA	40
LG/GOLDSTAR	18
MITSUBISHI	03
MIVER	29
NEC	20
NOBLEX	22
NOKIA	31
PANASONIC	04, 11
PEONY	34, 38, 39
PHILICO	10, 17, 21
PHILIPS	02, 42
Samsung	12, 33, 34, 35
SANYO	13, 16
SHARP	06
SONY	07
TCL	41
THOMSON	26
TOSHIBA	08, 14

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#### ATTENTION

The remote control can operate not only the video recorder but also some of your TV, cable box, satellite receiver and DVD.

- To operate your video recorder, first press the VCR button to set the remote control to the Video mode.
- To operate your TV, first press the **TV** button to set the remote control to the TV mode.
- To operate your satellite receiver, cable box or DVD, first press the **CABLE/SAT/DVD** to set the remote control to the satellite receiver, cable box or DVD mode.

## Multi-brand Remote Control

#### For satellite receiver, cable box and DVD

Your remote control can operate the basic functions of your satellite receiver , cable box or DVD.

Before you start . . .

• Turn on the satellite receiver, cable box or DVD using its remote control.

### SET BRAND CODE

Refer to the chart below. While holding down **CABLE**/ **SAT/DVD** on the recorder's remote control, enter one of the brand code corresponding to the make of your unit using the **NUMBER** keys, then press **OK**. Check if the unit's power goes off as it should. If it does, try other operations (IFF step 2).

- Once you have set the remote control to operate the unit, you don't have to repeat this step until you replace your remote control's batteries.
- Some brands have more than one code. If the unit does not function with one code, try entering another.

## OPERATE UNIT

First, press **CABLE/SAT/DVD** to set the remote control to unit mode, then press the corresponding button:

For satellite receiver and cable box . . . · 少川, TV PR +/-, NUMBER keys.

For DVD. . .

U/I, PLAY, STOP, PAUSE, FF, REW, ⊲⊳(I◄◀►►I) keys.

• For some brands of unit, you must press **OK** after having pressed the **NUMBER** keys.

### IMPORTANT

Although the provided remote control unit is compatible with JVC satelite receiver and DVD, as well as many other models, <u>it may</u> not work with your unit, or in some instances, may have limited function capability.

#### **NOTES:**

- It's not possible to set the two units at the same time. You can only set the remote control to operate one of these units at a time.
- You have to subscribe to a satellite or cable service to receive satellite or cable channels.



#### Cable Box or Satellite Receiver Multi-brand Code

CABLE BOX BRAND NAME	CODE
JVC	72, 73,
AMSTRAD	60, 61, 62, 63, 92
ВТ	72
CANAL+	81
CANAL SATELLITE	81
D-box	85
ECHOSTAR	51, 78, 79, 80, 82
FINLUX	68
GALAXIS	69, 88
GRUNDIG	64, 65
HIRSCHMANN	64
ITT	68
JERROLD	01, 04, 06, 11, 12, 15,
	28, 75
KATHREIN	70, 71
LUXOR	68
MASPRO	70
NOKIA	68, 87
PACE	67, 86, 92
PANASONIC	13, 14, 74
PFT	69
PHILIPS	66, 84
PHONOTREND	69
SALORA	68
SKYMASTER	69
TPS	83
VIDEOWAY	03, 09, 22, 76, 77
WISI	64

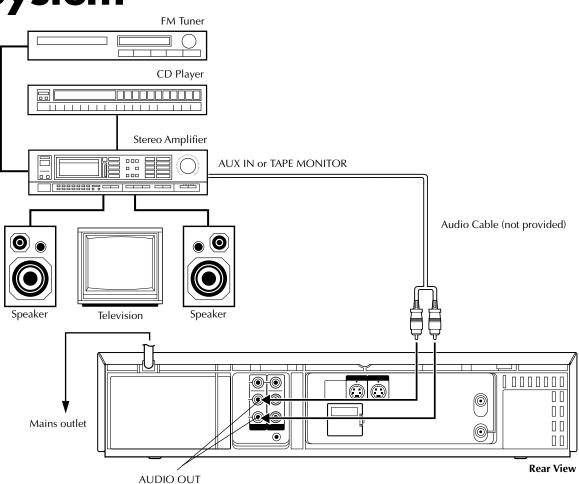
### **DVD Multi-brand Code**

DVD BRAND NAME	CODE
JVC	55
MATSUSHITA	58
PHILIPS	56
TOSHIBA	57

#### SYSTEM CONNECTIONS

# Connecting/ Using A Stereo System

These instructions enable you to connect your video recorder to your Hi-Fi stereo system (if you have one) and listen to the soundtrack through the stereo.





#### MAKE CONNECTIONS

Connect the AUDIO OUT L and R connectors on your video recorder to the AUX IN or TAPE MONITOR terminals on your stereo system's receiver or amplifier.

#### NOTES:

- When connecting your recorder's audio output connectors to a stereo amplifier, make sure you connect L and R correctly.
- If stereo or bilingual TV broadcasts are receivable in your area, this recorder can record them independently of the TV set and play them back through the connected stereo system.
- When listening to sound through the connected stereo system, turn the TV's volume down completely.

#### **CAUTIONS:**

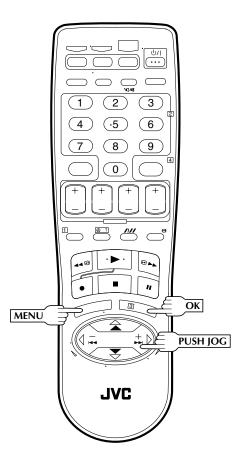
- This recorder has a dynamic range of more than 80 dB with regards to its Hi-Fi audio capability. It is recommended that you check the maximum level if you are going to listen to the Hi-Fi audio signals through a stereo amplifier. A sudden surge in the input level to the speakers may damage them.
- Some speakers and televisions are specially shielded to prevent television interference. If both are of the non-shielded type, do not place the speakers adjacent to the TV set as this can adversely affect the video playback picture.

### EDITING

## EN **39**

# Preparation For Editing

Turn on the TV and select the VIDEO channel (or AV mode).



#### Advantages Of S-VHS Video Recorders

You can edit from VHS to S-VHS, from S-VHS to VHS, or, from S-VHS to S-VHS.

- From VHS to S-VHS: Record VHS playback signals in the S-VHS mode. Although the picture quality is inherently limited by that of the original, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- From S-VHS to VHS: Because the picture quality of the source material is very high, the edited tape has better picture quality than those made by VHS-to-VHS editing.
- From S-VHS to S-VHS: All signals will be transferred without degradation.

### **Picture Control**

This feature helps you to adjust the playback picture quality according to your preference. \*The default setting is "AUTO."

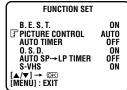


#### ACCESS FUNCTION SET SCREEN

Place the pointer next to "FUNCTION SET" by pressing **PUSH JOG**  $\triangle \nabla$ , then press **OK** or **PUSH JOG**  $\triangleright$ .

### SELECT PICTURE CONTROL SET MODE

Place the pointer next to "PICTURE CONTROL" by pressing **PUSH JOG** △▽, then press **OK** or **PUSH JOG** ▷ to select the desired mode. **AUTO**\*: Normally select "AUTO."



It automatically adjusts the picture quality. \* When the B.E.S.T. function is set to "OFF" (III" pg. 20), you can only select "NORM" instead of "AUTO."

**EDIT**: Select when you dub tapes.

**SOFT:** Select when you want to soften the picture. **SHARP:** Select when you want to sharpen the picture.

#### **NOTES:**

- When you select "EDIT", "SHARP" or "SOFT", the selected mode will not change until you select again.
- When you select "EDIT" to dub tapes, be sure to select "AUTO" (or "NORM" when the B.E.S.T. function is set to "OFF") after you finish dubbing the tapes.

RETURN TO NORMAL SCREEN Press MENU.



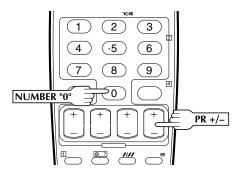
#### NOTE:

Select EDIT when you are dubbing tapes. Refer to page 36, 37.

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### EDITING (cont.)

# Edit From A Camcorder

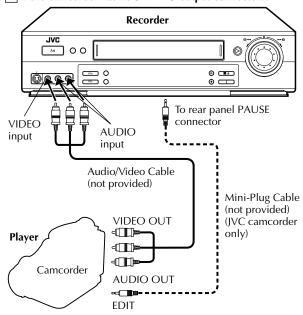


#### **NOTES:**

- All necessary cables can be obtained from your dealer.
- You can also use another video recorder as the player instead of a camcorder.
- When you select "EDIT" to dub tapes, be sure to select "AUTO" (or "NORM" when the B.E.S.T. function is set to "OFF") after you finish dubbing the tapes (□ pg. 15).

#### **IMPORTANT:**

- To edit, both the player and the recorder must be of the same colour system. Press your recorder's **COLOUR SYSTEM** button to select the appropriate colour system.
- PAL, SECAM and NTSC camcorders can be used as a player for editing.



#### A If the camcorder has no S-VIDEO output connector...

You can use a camcorder as the source player and your video recorder as the recorder.

#### MAKE CONNECTIONS

- **B** If the camcorder has an S-VIDEO output connector... ... connect the camcorder's S-VIDEO OUT and AUDIO OUT connectors to the recorder's front panel S-VIDEO(S-2) and AUDIO input connectors. The recorder's rear panel S-VIDEO IN and AUDIO IN input connectors are also available.
- When using a monaural camcorder, connect its AUDIO OUT connector to the AUDIO L input connector on your recorder.
- When a Master Edit Control-equipped JVC camcorder is used, the camcorder is capable of controlling the recorder. Refer to the camcorder's instruction manual for operating procedure.

#### SET RECORDER'S INPUT MODE



3

Press **NUMBER** key "0" and/or **PR** +/– to select "F-1" for the AUDIO/VIDEO input connectors, or "S-2" for the AUDIO/S-VIDEO input connectors, depending on the connectors being used.

#### SELECT "EDIT" FOR PICTURE CONTROL SET MODE

Follow the "Picture Control" section on page 15, then select "EDIT."

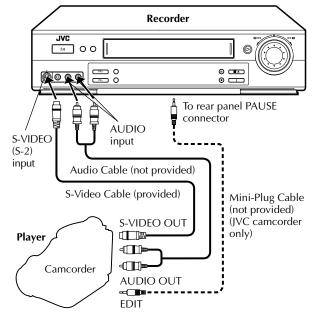
#### START CAMCORDER

Engage its Play mode.

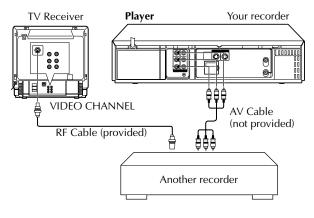
#### START RECORDER

Engage its Record mode.

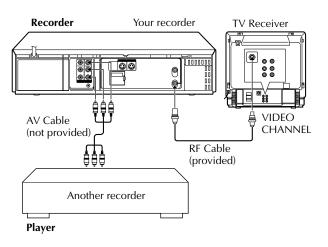
#### **B** If the camcorder has an S-VIDEO output connector...



# Edit To Or From Another Video Recorder



#### Recorder



You can use your video recorder as the source player or the recording deck.

#### MAKE CONNECTIONS

Connect the player's AUDIO/VIDEO OUT connector to the recorder's AUDIO/VIDEO IN connector.

Use the L connector for monaural connection.

#### SET RECORDING DECK'S INPUT MODE

Set to AUX. With this video recorder, press **NUMBER** key "0" and/or **PR +/-** to select depending on the connector being used — "L-1" for the rear panel VIDEO/ AUDIO input connectors, or "F-1" for the front panel VIDEO/AUDIO input connectors.

#### SELECT "EDIT" FOR PICTURE CONTROL SET MODE

Follow the "Picture Control" section on page 15, then select "EDIT."

#### START SOURCE PLAYER

Engage its Play mode.

#### START RECORDING DECK

Engage its Record mode.

#### **NOTES:**

3

- When you use this recorder as the player for editing, be sure to set "O.S.D." to "OFF" before starting (IFP pg. 10).
- All necessary cables can be obtained from your dealer.
- NTSC tapes being played back in the NTSC → PAL mode (□ pg. 45) cannot be dubbed to another recorder.
- When you dub an NTSC tape using your recorder as the playback deck, select NTSC 3.58 (or NTSC 4.43) with the COLOUR SYSTEM button (II) pg. 44).
- When you select "EDIT" to dub tapes, be sure to select "AUTO" (or "NORM" when the B.E.S.T. function is set to "OFF") after you finish dubbing the tapes (III) pg. 15).
- If you are using another recorder with S-Video and Audio input/output connectors, you can connect those connectors to this recorder's S-VIDEO IN/S VIDEO OUT and AUDIO IN/ OUT connectors.

When Using Your Video Recorder As The Source Player ... ... connect its rear panel S VIDEO OUT and AUDIO OUT connectors to the recording deck's S-Video and Audio input connectors.

When Using Your Video Recorder As The Recording Deck ... ... connect its front panel S-VIDEO and AUDIO input connectors to the source player's S-Video and Audio output connectors. Then, set the recorder's input mode to "S-1".

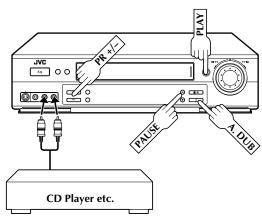
#### **IMPORTANT:**

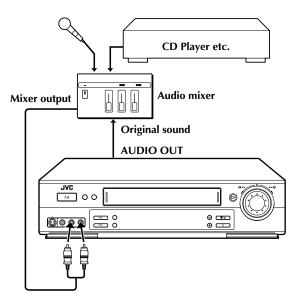
- To edit, both the player and the recorder must be of the same colour system. Press your recorder's **COLOUR SYSTEM** button to select the appropriate colour system.
- For more information on multi-system compatibility,
   If pg. 44.

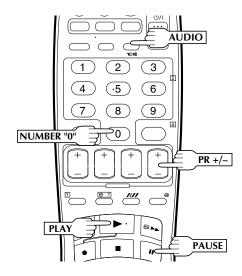
## $42_{EN}$

### EDITING (cont.)

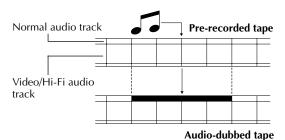
# **Audio Dubbing**







Audio dubbing replaces the normal audio sound of a previously recorded tape with a new soundtrack.



### MAKE CONNECTIONS

Connect an audio component to the AUDIO L + R connectors on the recorder's front panel.

• When connecting monaural equipment, use only the recorder's AUDIO L connector.

### SET INPUT MODE

Press **NUMBER** key "0" and/or **PR +/–** so that "F-1" appears in place of a channel number.

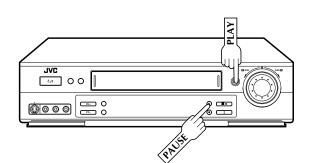
### LOCATE START POINT

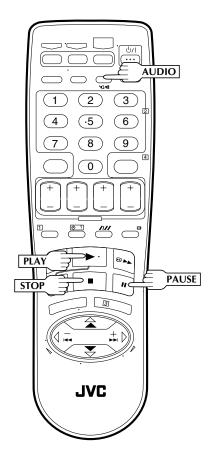
Press **PLAY** to start playback of the tape in your recorder, and press **PAUSE** when you find the point where you want to start dubbing.

### ENGAGE AUDIO DUBBING

Press A. DUB.

- Your recorder enters the Audio Dubbing Pause mode. ("\" blinks, ">" and "" light up on the front display panel.)
- To perform audio dubbing with audio mixing, press
   AUDIO on the remote control to select "D d (L+R)" at this point.
  - \* Audio dubbing with audio mixing is not possible if you're using a monaural audio component, or if you don't have an audio mixer.





### START DUBBING

Engage the audio component's Play mode, then press **PLAY** to start the tape in your recorder. Audio dubbing begins at this point.

- "\]" blinks and "\>" is displayed on the front display panel.
- To stop dubbing temporarily, press **PAUSE**. Press **PLAY** to resume dubbing.

#### END AUDIO DUBBING

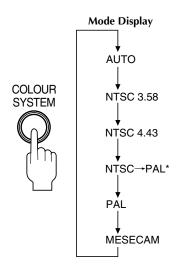
Press **STOP** to stop the tape in your recorder, and engage the audio component's Stop mode.

#### **NOTES:**

- When monitoring the sound during Audio Dubbing, the normal soundtrack is automatically selected. If you wish to hear the mixed sound (Hi-Fi + Normal soundtracks), press AUDIO on the remote control to select " NORM ((HI FI + NORM)" (F pg. 16).
- Audio dubbing stops automatically when the counter reaches "0:00:00", and the recorder enters the Play mode. Check the counter reading before dubbing.
- Audio dubbing is also possible using the rear panel AUDIO IN L + R connectors. When using these connectors, make sure to select the correct input mode in step 2.
- Audio dubbing cannot be performed on a cassette that has had its record safety tab removed.
- When playing back an audio-dubbed tape, press AUDIO on the remote control to select the soundtrack you wish to hear (III) pg. 16).



### **Setting Of The Colour System Select Buttons**



\* "NTSC  $\rightarrow$  PAL" appears during playback only.

Use the **COLOUR SYSTEM** button on the front panel to select the colour system. Pressing the **COLOUR SYSTEM** for about 2 seconds displays the current setting on the screen. While the current setting is displayed, press **COLOUR SYSTEM** again to change the mode as illustrated on the left. The On-Screen display will show which mode is selected.

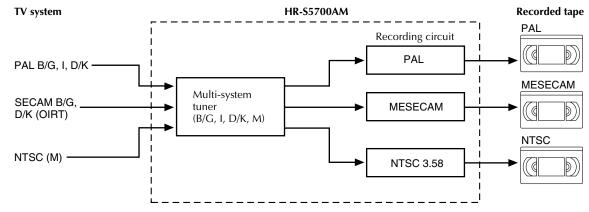
Mode	Description
AUTO	Usually set to this mode. This mode automatically detects PAL, NTSC, SECAM or MESECAM and adjusts to the colour system being recorded or played back. When it does not perform properly, set the colour system manually.
MANUAL	For recording, there is a choice of 4 selectable modes; PAL/MESECAM/NTSC 3.58/NTSC4.43. Select the mode that matches the colour signal being received. For playback, there is an additional mode which allows NTSC tapes to be played back and viewed on PAL TVs.

#### **NOTES:**

- In the AUTO mode, NTSC signals will be automatically recorded as NTSC 3.58.
- In the AUTO mode, NTSC tapes will be played back as NTSC 3.58.
- SECAM signals will always be recorded as MESECAM. Select the AUTO or the MESECAM mode when recording SECAM signals.
- When playing back a SECAM tape, select the AUTO or MESECAM mode. The playback picture will always be monochrome.
- In the NTSC4.43 mode, with some TVs, on-screen displays (Programme screen etc.) may roll up or down and there may be a loss of colour. When this happens, select the AUTO mode.

### **Off-Air Recording**

The built-in multi-system tuner is capable of receiving PAL B/G, I and D/K, and SECAM B/G and D/K and NTSC broadcasts.

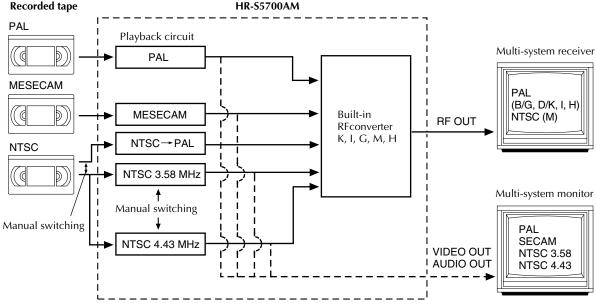


#### NOTE:

This model does not operate in BRAZIL (PAL-M) or ARGENTINA (PAL-N).

### Playback

This recorder can play back all 3 types of recorded tape.



#### **NOTES:**

When viewing NTSC tapes on a PAL TV set:

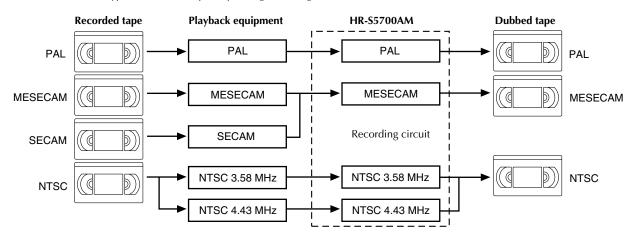
- The picture may shrink vertically with black bars appearing at the top and bottom of the screen. This is not a malfunction on the part of the video recorder nor the TV.
- The picture may roll up or down. This can be corrected using the V-HOLD control found on some TVs. (This cannot be corrected if the TV does not have a V-HOLD control.)
- During search, still, or frame-by-frame playback, the picture will be distorted, and there may be a loss of colour.

#### ATTENTION:

When this recorder is connected to a multi-system TV, the audio signal may not be heard or may be noisy if the colour system select switch of the TV is adjusted to the AUTO position. In such a case, set the TV's colour system select switch to the appropriate position which corresponds to the TV system you have selected at the TV System Select screen.

#### **Tape-To-Tape Editing**

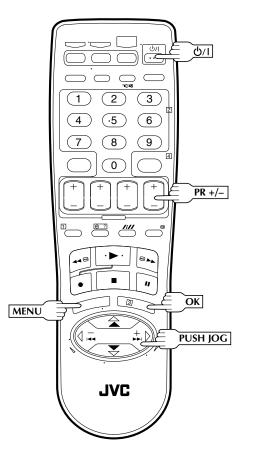
There are 4 different types of recorded tape, depending on the signal recorded.



#### TUNER SET

**46** EN

Turn on the TV and select the VIDEO channel (or AV mode).

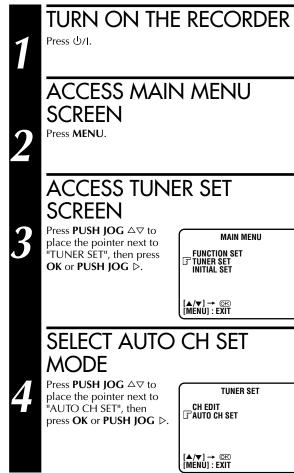


#### IMPORTANT

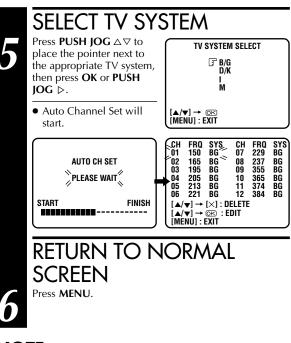
Perform the following steps only if auto channel set has not been set correctly by Auto Set Up function (IPP pg. 8) or if you have moved to a different area or if a new station starts broadcasting in your area.

Your recorder needs to memorise all necessary stations in channel positions in order to record TV programmes. Auto Channel Set automatically assigns all receivable stations in your area so that you can call them up with the **PR** +/– buttons without going through any vacant channels.

### **Auto Channel Set**







#### NOTE:

If you perform Auto Channel Set when the aerial cable is not connected properly, "SCAN COMPLETED -NO SIGNAL-" appears on the screen in step 5. When this happens, make sure of the aerial connection and press OK; Auto Channel Set will take place again.

#### IMPORTANT

- If no sound accompanies the picture or the audio sounds unnatural on some channels that have been stored by Auto Channel Set, the TV system setting for those channels may be incorrect. Select the appropriate TV system for those channels. IF "TV System Selection -When you see the picture but the audio can't be heard or sounds unnatural" on page 49.
- Since your video recorder memorizes all detected stations even if the reception condition is poor, some of those stored stations may produce a noisy picture. To delete those stations, IF "Delete A Channel" on page 48.

Major Countries	TV System
Australia, New Zealand, Kuwait, U.A.E., Indonesia, Singapore, Thailand, Malaysia, Iran, Saudi Arabia, Egypt, Morocco, Lebanon, Iraq	B/G
China, Mongolia, Russia	D/K
Hong Kong	I
U.S.A., Japan, S.Korea, Taiwan	М

### **Manual Channel Set**

Store channels that were not stored during Auto Set Up (1) pg. 8) or Auto Channel Set (17 pg. 46).



Perform steps 1 – 3 of "Auto Channel Set" on page 46.

#### ACCESS CHANNEL LIST

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG**  $\triangleright$ .

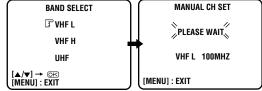
### SELECT POSITION

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to an open channel position, then press **OK** or **PUSH JOG**  $\triangleright$ .

### SELECT BAND

3

Press **PUSH JOG**  $riangle \nabla$  to place the pointer next to the band of your choice, then press **OK** to initiate Manual Channel Set.



#### SET DESIRED STATION

The screen to the right appears when a station is detected. If you do not want to store the detected station ... Press PUSH JOG △▽ to place the pointer next to "CONTINUE", then press OK or PUSH JOG ▷. Channel search will resume. If you want to store the detected station ...



Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "STORE", then press **OK** or **PUSH JOG** ▷. The Channel List appears again.

- The blueback screen and the TV picture currently being broadcast appear alternately for 8 seconds each.
- If you want to store another channel, repeat steps 3-5.
- When channel search completes for that band, the Band Select screen appears again. To set channels for other bands, select another band and start Manual Channel Set again (EF step 4 and 5).
- For fine tuning adjustment, see "Fine-Tuning Channels" on page 49.

**RETURN TO NORMAL** SCREEN Press MENU.

## **Delete A Channel**

 $48_{EN}$ 

#### ACCESS TUNER SET **SCREEN**

Perform steps 1 – 3 of "Auto Channel Set" on page 46.

#### ACCESS CHANNEL LIST

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG** ▷.

### SELECT CHANNEL

Press **PUSH JOG** △▽ until the channel you want to delete begins blinking.

(CH	FRQ	SYS.	CH	FRQ	SYS
201	150	BG	07	229	BG
F 02	165	BG 🛸	08	237	BG
03	195	BG	09	355	BG
04	205	BG	10	365	BG
05	213	BG	11	374	BG
06	221	BĞ	12	384	BĞ
[▲	/▼] →	[×] : D	ELETE		
. Í ▲	/▼1→	©K :E	DIT		
L î Mi	ENÚ1 : I	EXIT			
<u> </u>					_

### DELETE CHANNEL

#### Press X.

 To re-store it, simply press **PUSH JOG** ⊲. • Repeat steps **3** – **4** as necessary.

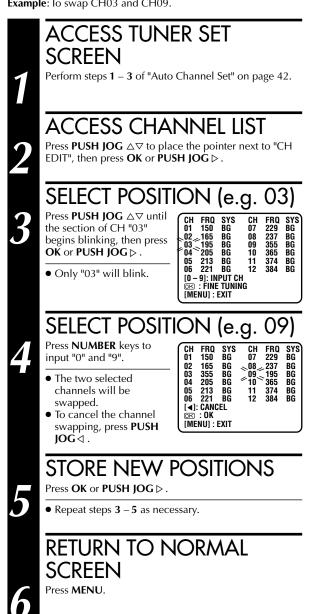
CH 01 02 03 04 05 06	FRQ 165 195 205 213 221	SYS BG BG BG BG BG	CH 07 08 09 10 11 12	FRQ 229 237 355 365 374 384	SYS BG BG BG BG BG BG	
[▲/▼] → [◀] : ADD [MENU] : EXIT						

#### **RETURN TO NORMAL SCREEN** Press MENU.

### **Swap Channel Positions**

TUNER SET (cont.

Example: To swap CH03 and CH09.



### **Fine-Tuning Channels**

#### ACCESS TUNER SET SCREEN

Perform steps 1 - 3 of "Auto Channel Set" on page 46.

#### ACCESS CHANNEL LIST

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG**  $\triangleright$ .

#### SELECT CHANNEL TO FINE-TUNE

Press **PUSH JOG**  $\triangle \nabla$  until the channel you want to tune begins blinking, then press **OK** twice.

• The "FRQ" number for

that channel starts

blinking.

CH .	FRO	SYS	CH	FRQ	SYS
01	<b>]150</b> [	BG	07	229	BG
02 1	165	BG	08	237	BG
03	195	BG	09	355	BG
04	205	BG	10	365	BG
05	213	BG	11	374	BG
06	221	BG	12	384	BG
[▲/	▼] : Fl	NE TUI	NING		
0K)	: SELI	ECT SY	STEM		
[ME	NU] : I	EXIT			

### PERFORM TUNING

Press **PUSH JOG**  $\triangle \nabla$  until the picture becomes clearer, then press **OK** or **PUSH JOG**  $\triangleright$ .

• Repeat steps 3 and 4 as necessary.

### RETURN TO NORMAL SCREEN



Press MENU.

#### TV System Selection – When you see the picture but the audio can't be heard or sounds unnatural



Perform steps 1 – 3 of "Auto Channel Set" on page 46.

### ACCESS CHANNEL LIST

Press **PUSH JOG**  $\triangle \nabla$  to place the pointer next to "CH EDIT", then press **OK** or **PUSH JOG**  $\triangleright$ .

### SELECT CHANNEL

Press **PUSH JOG**  $\triangle \bigtriangledown$  until the channel you want to change its TV system begins blinking, then press **OK** three times.

CH	FRQ.	SYS	CH	FRQ	SYS
01	150	BGĆ	07	229	BG
02	165	~BG ~`	08	237	BG
03	195	BG	09	355	BG
04	205	BG	10	365	BG
05	213	BG	11	374	BĠ
06	221	BG	12	384	BG
[▲/	▼]:S	ELECT	SYSTE	M	
0K)	: OK				
[ME	:[UN	EXIT			
_					

EN 49

 The "SYS" display for that channel starts blinking.

### SELECT TV SYSTEM

Press **PUSH JOG**  $\triangle \nabla$  to select the appropriate TV system (BG  $\rightarrow$  DK  $\rightarrow$  I  $\rightarrow$  M). Then press **OK** or **PUSH JOG**  $\triangleright$ .

• Repeat steps **3** and **4** as necessary.

#### RETURN TO NORMAL SCREEN

Press MENU.

1

## $50_{EN}$

### TROUBLESHOOTING

Before requesting service for a problem, use this chart and see if you can repair the trouble yourself. Small problems are often easily corrected, and this can save you the trouble of sending your video recorder off for repair.

POWER		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. No power is applied to the recorder.	• The mains power cord is discon- nected.	Connect the mains power cord.
<ol> <li>The clock is functioning properly, but the recorder cannot be powered.</li> </ol>	• "O" is displayed on the display panel with Auto Timer set to "OFF".	Press the <b>O</b> button to turn the "O" indicator off.
3. The remote control won't function.	• The batteries are discharged.	Replace the dead batteries with new ones.
TAPE TRANSPORT		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<ol> <li>The tape does not run during recording.</li> </ol>	• """ is displayed on the display panel.	Press <b>PLAY</b> to turn the """ indicator off.
2. The tape will not rewind or fast- forward.	• The tape is already fully rewound or fast-forwarded.	Check the cassette.
PLAYBACK		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
<ol> <li>The playback picture does not appear while the tape is running.</li> </ol>	<ul> <li>If you're using the RF OUT connection</li> <li> the TV receiver's channel selector is not set to the VIDEO channel.</li> <li> the recorder's VIDEO channel has not been correctly set.</li> <li>If you're using the AV or S-VIDEO connection, the TV receiver is not set to the AV mode.</li> </ul>	If you are using the RF OUT connec- tion set the TV receiver to the VIDEO channel. (III) pg. 6) Perform "Video Channel Set". (III) pg. 6) If you are using the AV or S-VIDEO connection, set the TV to its AV mode.
2. Noise appears during visual search.	• This is normal.	
3. Noise appears during normal playback.	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 15)
<ol> <li>Noise appears during slow-motion playback.</li> </ol>	• The automatic tracking mode is engaged.	Try manual tracking. (🖙 pg. 15)
5. Noise appears during still playback.		Press <b>PR +/–</b> few times to remove the noise bars from the screen.
6. Breaks are noticeable in Hi-Fi soundtrack.	• Automatic tracking is engaged.	Engage and adjust tracking manually. (🖙 pg. 15)
7. The playback picture is blurred or interrupted while TV broadcasts are clear.	• The video heads may be dirty.	Consult your JVC dealer.
8. Playback picture has a loss of colour.	<ul><li>The wrong colour system is selected for the tape being played back.</li><li>The wrong colour system was selected during recording.</li></ul>	Select the correct colour system by pressing the <b>COLOUR SYSTEM</b> button. (IPP pg. 44) Once recorded, the signal cannot be corrected. Be sure to choose the correct setting before recording.
9. No sound accompanies the playback picture.	• The TV system you have selected at the TV System Select screen is incorrect.	Set it to the correct position for the TV broadcast system used in your area. (EF pg. 49)

# EN 51

RECORDING		
SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
1. Recording cannot be started.	• There is no cassette loaded, or the cassette loaded has had its Record Safety tab removed.	Insert a cassette, or using adhesive tape, reseal the slot where the tab was removed.
2. TV broadcasts cannot be recorded.	• "L-1", "F-1", "S-1" or "S-2" has been selected as the input mode.	Set to the desired channel.
3. Tape-to-tape editing is not possible.	<ul> <li>The source (another video recorder, camcorder) has not been properly connected.</li> <li>All necessary power switches have not been turned on.</li> <li>The input mode is not correct.</li> </ul>	Confirm that the source is properly connected. Confirm that all units' power switches are turned on. Set the input mode to "L-1", "F-1", "S-1" or "S-2".
4. Camcorder recording is not possible.	<ul><li> The camcorder has not been properly connected.</li><li> The input mode is not correct.</li></ul>	Confirm that the camcorder is properly connected. Set the input mode to "L-1", "F-1", "S- 1" or "S-2".
TIMER RECORDING		
SYMPTOM	POSSIBLE CAUSE	<b>CORRECTIVE ACTION</b>
1. Timer recording won't work.	<ul><li> The clock and/or the timer have been set incorrectly.</li><li> The timer is not engaged.</li></ul>	Re-perform the clock and/or timer settings. Press <b>D</b> and confirm that " <b>D</b> " is displayed on the display panel.
2. On-screen timer programming is not possible.	• Timer recording is in progress.	Timer programming can't be performed while a timer recording is in progress. Wait until it finishes.
3. "℗" and "̄̄̄̄̄̄̄̄̄つ" on the display panel won't stop blinking.	• The timer is engaged but there's no cassette loaded.	Load a cassette with the Record Safety tab intact, or cover the hole using adhesive tape.
<ol> <li>The cassette is automatically ejected, and "O" and "OO" on the display panel won't stop blinking.</li> </ol>	• The loaded cassette has had its Record Safety tab removed.	Remove the cassette and cover the hole with adhesive tape, or insert a cassette with the Record Safety tab intact.
5. "℗" blinks for 10 seconds and the Timer mode is disengaged.	• O has been pressed when there are no programs in memory, or the timer record information has been programmed incorrectly.	Check the programmed data and reprogram as necessary, then press <b>Ø</b> again.
6. The cassette is automatically ejected, the power shuts off and "⊘" and "⊡" won't stop blinking.	• The end of the tape was reached during timer recording.	The programme may not have been recorded in its entirety. Next time make sure you have enough time on the tape to record the entire programme.
7. The G-CODE/SHOWVIEW system does not timer-record properly.	• The recorder's channel positions have been set incorrectly.	Refer to "G-CODE/SHOWVIEW System Setup" and re-perform the procedure. (IFF pg. 24)



OTHER PROBLEMS		
SYMPTOM	POSSIBLE CAUSE	<b>CORRECTIVE ACTION</b>
<ol> <li>Whistling or howling is heard from the TV during camcorder record- ing.</li> </ol>	<ul><li> The camcorder's microphone is too close to the TV.</li><li> The TV's volume is too high.</li></ul>	Position the camcorder so its microphone is away from the TV. Turn the TV's volume down.
2. When scanning channels, some of them are skipped over.	<ul> <li>Those channels have been designated to be skipped.</li> </ul>	If you need the skipped channels, restore them. (도ア pg. 47)
3. The channel cannot be changed.	• Recording is in progress.	Press <b>PAUSE</b> to pause the recording, change channels, then press <b>PLAY</b> to resume recording.
<ol> <li>Channel settings that were made manually seem to have changed or disappeared.</li> </ol>	• After the manual settings were made, Auto Channel Set was performed.	Perform manual setting again.
5. No channels are stored in the recorder's memory.	• The TV aerial cable was not connected to the recorder when Auto Set Up was performed.	Connect the TV aerial cable to the recorder properly and turn off the recorder power once, then turn the recorder power back on again. The recorder will try Auto Set Up again. ( $\mu$ g, 8)
6. ":" is displayed on the front display panel after a power outage.	• The lithium battery is exhausted.	Replace the lithium battery with a new one. (🖙 pg. 7)

#### **QUESTIONS AND ANSWERS**

#### PLAYBACK

<ul><li>Q. What happens if the end of the tape is reached during playback or search?</li><li>A. The tape is automatically rewound to the beginning.</li></ul>
Q. Can the video recorder indefinitely remain in the still mode?
<b>A.</b> No. It stops automatically after 5 minutes to protect the heads.
<ul> <li>Q. When returning from multi-speed search to normal playback, the picture is disturbed. Should I be concerned about this?</li> <li>A. No, it is normal.</li> </ul>
<ul><li>Q. Other than preventing further recording, what effect does removing the Record Safety tab have?</li><li>A. It disables marking of index codes.</li></ul>
<ul><li>Q. Sometimes, during Index Search, the video recorder can't find the programme I want to see. Why not?</li><li>A. There may be index codes too close together.</li></ul>
RECORDING
<ul> <li>Q. When I pause and then resume a recording, the end of the recording before the pause is overlapped by the beginning of the continuation of recording. Why does this happen?</li> <li>A. This is normal. It reduces distortion at the pause and resume points.</li> </ul>
Q. Can the video recorder indefinitely remain in the Record-Pause mode?
<ul><li>A. No. The video recorder goes to its Stop mode automatically after 5 minutes to protect the heads.</li></ul>
<ul><li>Q. What happens if the tape runs out during recording?</li><li>A. The video recorder automatically rewinds it to the beginning.</li></ul>

#### TIMER RECORDING

- Q.  $"\bigcirc"$  and "O" remain lit on the display panel. Is there a problem?
- **A.** No. This is a normal condition for a timer recording in progress.

. . . . . . . . . . . . . . . . . . . .

Q. Can I program the timer while I'm watching a tape or a TV broadcast?

Q. Is it possible to timer-record a TV programme broadcast in 2000?A. Yes, it is possible.

. . . . . . . . . . . . . . . . .

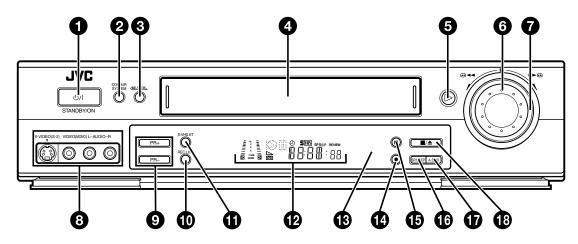
#### ATTENTION:

This recorder contains microcomputers. External electronic noise or interference could cause malfunctioning. In such cases, switch the recorder off and unplug the mains power cord. Then plug it in again and turn the recorder on. Take out the cassette. After checking the cassette, operate the unit as usual.

**A.** You won't see the picture as it is replaced by the onscreen menu, but the audio from the program or tape you're viewing can be heard.



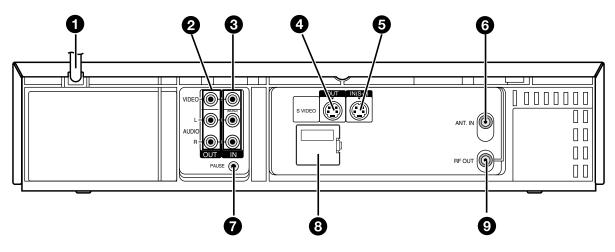
### **FRONT VIEW**



- STANDBY/ON 心/I Button I pg. 10
- 2 COLOUR SYSTEM Button 🖙 pg. 44
- 3 REVIEW Button ☞ pg. 16
- Cassette Loading Slot
- S PLAY Button 🖙 pg. 13
- 6 JOG Dial 🖙 pg. 14
- SHUTTLE Ring 🖙 pg. 14
- 8 S-VIDEO(S-2)/VIDEO/AUDIO Input Connectors 🖙 pg. 40
- **9** PR +/− Buttons 🖙 pg. 17

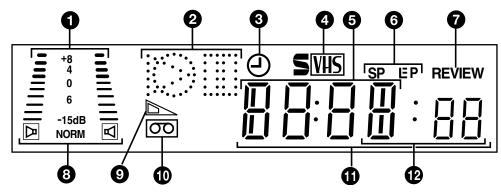
- D REC LINK Button I pg. 17
- **①** S-VHS ET Button ☞ pg. 20
- Display Panel 🖙 pg. 55
- B Infrared Beam Receiving Window
- RECORD Button 🖙 pg. 17
- PAUSE Button 🖙 pg. 14
- SP/LP/EP Button g pg. 18
   A. DUB [Audio Dubbing] Button g pg. 42
- B STOP/EJECT Button ☞ pg. 13

### **REAR VIEW**



- Mains Power Cord 🖙 pg. 4, 5
- 2 AUDIO/VIDEO OUT Connectors 🖙 pg. 4, 5, 41
- 3 AUDIO/VIDEO IN Connectors ☞ pg. 41
- I S VIDEO OUT Connector ☞ pg. 5
- S VIDEO IN(S-1) Connector g pg. 40
- B ANT. IN Connector ☞ pg. 4, 5
- Remote PAUSE Connector 🖙 pg. 40
- 8 Lithium Battery Compartment 🖙 pg. 7
- S RF OUT Connector 🖙 pg. 4, 5

### **DISPLAY PANEL**



- B.E.S.T. Picture System Display ☞ pg. 22 Audio Level Indicator
- 2 Symbolic Mode Indicators

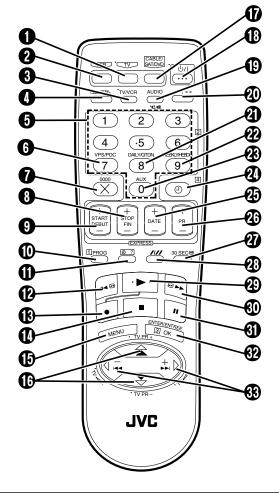
PLAY: FF/REW VARIABLE SHUTTLE SEARCH:		STILL: SLOW:	
		RECORD:	$\bigcirc$
		RECORD PAUSE:	
AUDIO DUBBING:			
AUDIO DUBBING PAUSE:			

- 3 "Timer" Indicator 🖙 pg. 27, 29
- ④ S-VHS Indicator □ pg. 20
- Channel Display Clock Display
- G Tape Speed Indicators ☞ pg. 17
- Instant REVIEW Indicator 🖙 pg. 16
- In Tape Remaining Time Indicator ☞ pg. 19
- **O** "Cassette Loaded" Mark
- Counter Display
- Mode Display (L-1, F-1, S-1 or S-2)

#### INDEX (cont.)

### **REMOTE CONTROL**

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Buttons with a small dot on the left side of the name can also be used to operate your TV  $\square$  pg. 35.

- TV Button 🖙 pg. 35
- VCR Button I pg. 35
- 3 TV/VCR Button ☞ pg. 35
- REVIEW Button I pg. 16
- ⑤ NUMBER Keys ☞ pg. 17
- VSP/PDC Button ☞ (no function)
- B STOP +/− Button 🖙 pg. 28
- START +/- Button ☞ pg. 28
- D PROG Button 🖙 pg. 26, 28
- **① ④?** Button ☞ pg. 30
- Rewind [REW] Button ☞ pg. 13, 14
- B RECORD Button 🖙 pg. 17
- I STOP Button ☞ pg. 13
- MENU Button ☞ pg. 8
- PUSH JOG △▽ Button ☞ pg. 8, 10 TV PR +/- Button ☞ pg. 35
- ⑦ CABLE/SAT/DVD Button ☞ pg. 35
- 🚯 STANDBY/ON 心/I Button 🖙 pg. 10
- (i) AUDIO Button ☞ pg. 16
   (TV Muting) Button ☞ pg. 35
- ② DAILY Button ☞ pg. 27, 29
- WEEKLY Button ☞ pg. 25, 27
- AUX Button 🖙 pg. 34
- 🕲 🕘 Button 🖙 pg. 27, 29
- Ø DATE +/− Button □ pg. 28

- ⑦ Tracking Button ☞ pg. 15 SP/LP/EP Button ☞ pg. 17
- PLAY Button 🖙 pg. 13
- Description Fast Forward [FF] Button 🖙 pg. 13, 14
- PAUSE Button 🖙 pg. 14
- OK Button ☞ pg. 6 ENTER/ENTREE Button
- Button ☞ pg. 14, 15
  - TV ⊿ +/– Button 🖙 pg. 35

#### How To Use

The remote control can operate most of your video recorder's functions, as well as basic functions of TV, cable box, satellite receiver and DVD sets of JVC and other brands. IF pg. 35.

- Point the remote control toward the sensor window.
- The maximum operating distance of the remote control is about 8 m.

#### **NOTES:**

- When inserting the batteries, be sure to insert in the correct directions as indicated under the battery cover.
- If the remote control doesn't work properly, remove its batteries, wait a short time, replace the batteries and then try again.

#### ATTENTION

The remote control can operate not only the video recorder but also some of your TV, cable box, satellite receiver and DVD functions.

- To operate your video recorder, first press the VCR button to set the remote control to the Video mode.
- To operate your TV, first press the **TV** button to set the remote control to the TV mode (**E** pg. 35).
- To operate your satellite receiver, cable box or DVD, first press the CABLE/SAT/DVD to set the remote control to the satellite receiver, cable box or DVD mode.

### **SPECIFICATIONS**

## EN 57

#### GENERAL

Power requirement	
Rating	: AC 110 – 240 V∼, 50/60 Hz
Operating	: AC 90 – 260 V∼, 50/60 Hz
Power consumption	: 22 W
Temperature	
Operating	: 5°C to 40°C
Storage	: -20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 400 x 94 x 347 mm
Weight	: 4.2 kg
Format	: S-VHS/VHS standard
Maximum recording tin	ne
(SP)	: 240 min. with E-240 video
	cassette (PAL/MESECAM)
	: 160 min. with T-160 video
	cassette (NTSC)
(LP)	: 480 min. with E-240 video
	cassette (PAL/MESECAM)
(EP)	: 480 min. with T-160 video
	cassette (NTSC)
VIDEO/AUDIO	
Signal system	: PAL-type colour signal and
<i>. .</i>	CCIR monochrome signal,

#### TUNER/TIMER

TV channel storage	
capacity	: 99 positions (+AUX position)
Tuning system	: Frequency synthesized tuner
Channel coverage	: VHF (Low) 42 – 175 MHz
C	(High)175 – 470 MHz
	UHF 470 – 870 MHz
Aerial output	: UHF channels (Adjustable
	E28 – E60)
Memory backup time	: Approx. 6 months
	Estimated figure based on
	supplied fresh battery; actual
	performance may differ.

#### ACCESSORIES

Provided accessories	: RF cable, S-Video cable, Infrared remote control unit, "R6/UM-3" battery x 2, Lithium battery CR2025, Conversion plug*

\*Not provided in certain areas.

Specifications shown are for SP mode unless otherwise specified. Design and specifications subject to change without notice.

	625 lines/50 fields : NTSC colour and EIA
	monochrome signals, 525 lines/60 fields
Recording system	: DA-4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 400 lines (S-VHS)
	250 lines (VHS PAL/
	MESECAM)
	220 lines (VHS NTSC)
Frequency range	: 70 Hz to 10,000 Hz
1 / 0	(Normal audio)
	20 Hz to 20,000 Hz
	(Hi-Fi audio)
Input/Output	: RCA connectors
	(IN x 2, OUT x 1)
	S-Video connectors
	(IN x 2, OUT x 1)

MEMO


		10
M	ΕN	10



